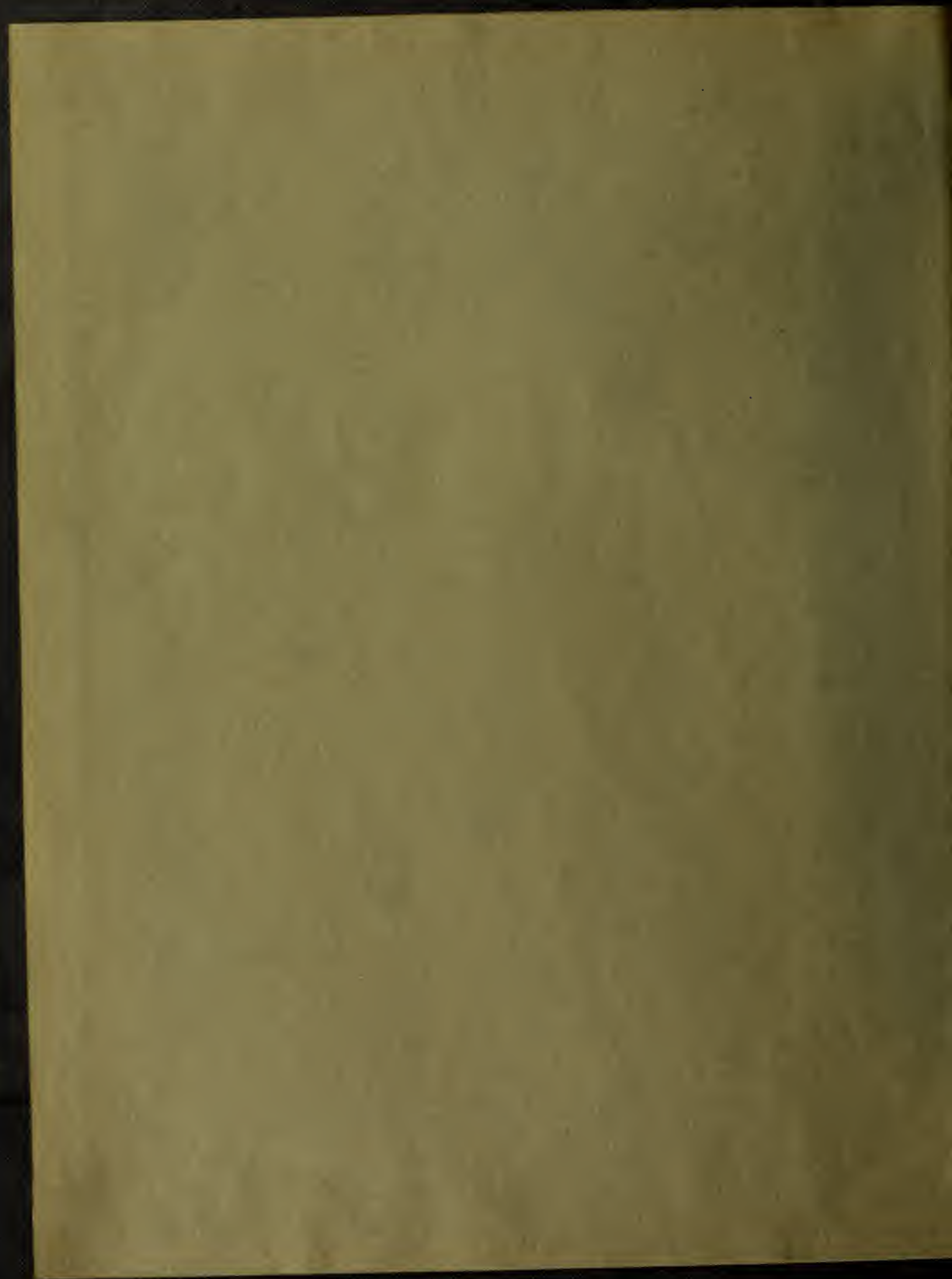


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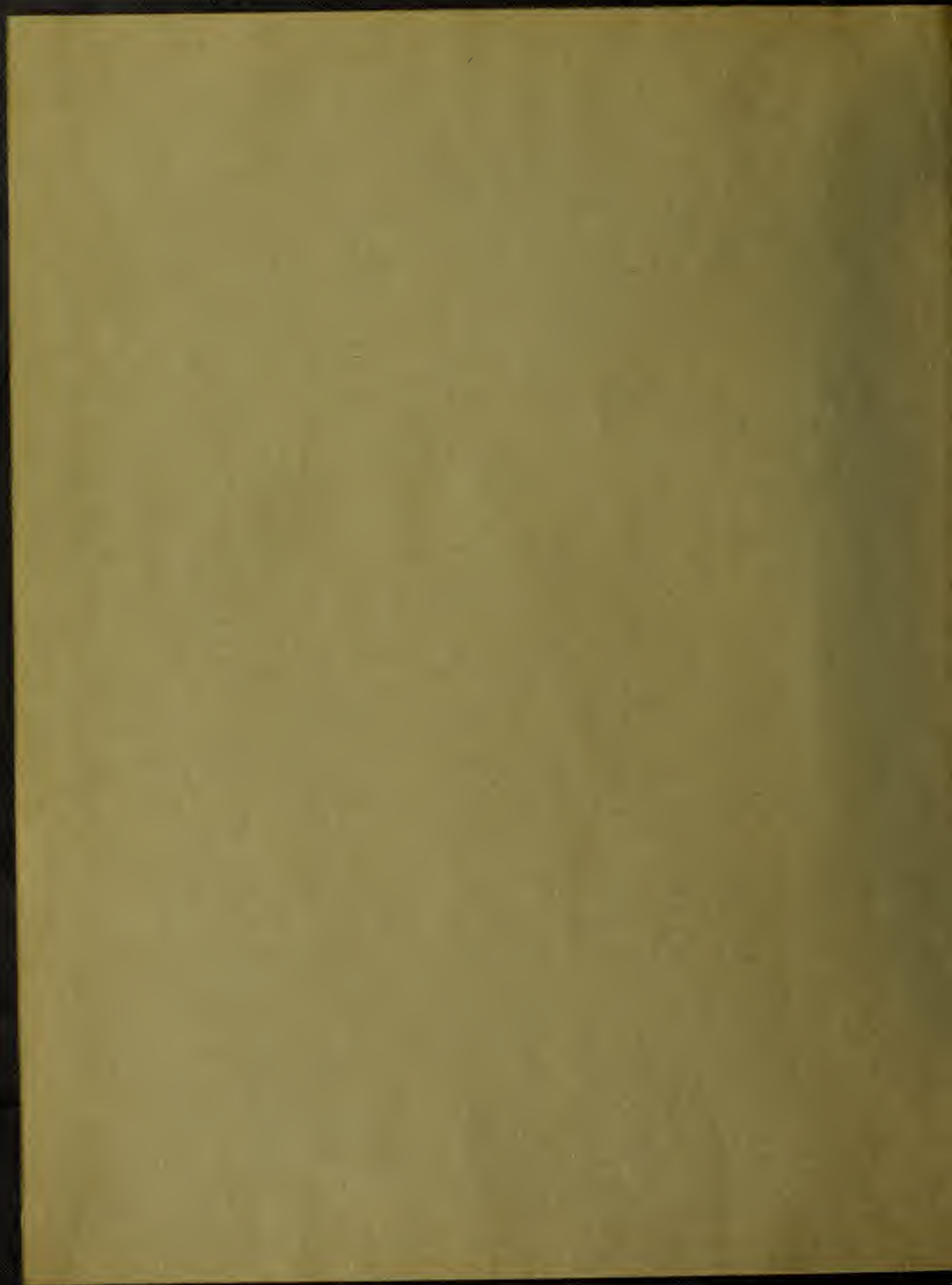


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WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

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CLIMATOLOGICAL DATA

NEW JERSEY SECTION

JANUARY, 1920.

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BY

G. HAROLD NOYES

METEOROLOGIST

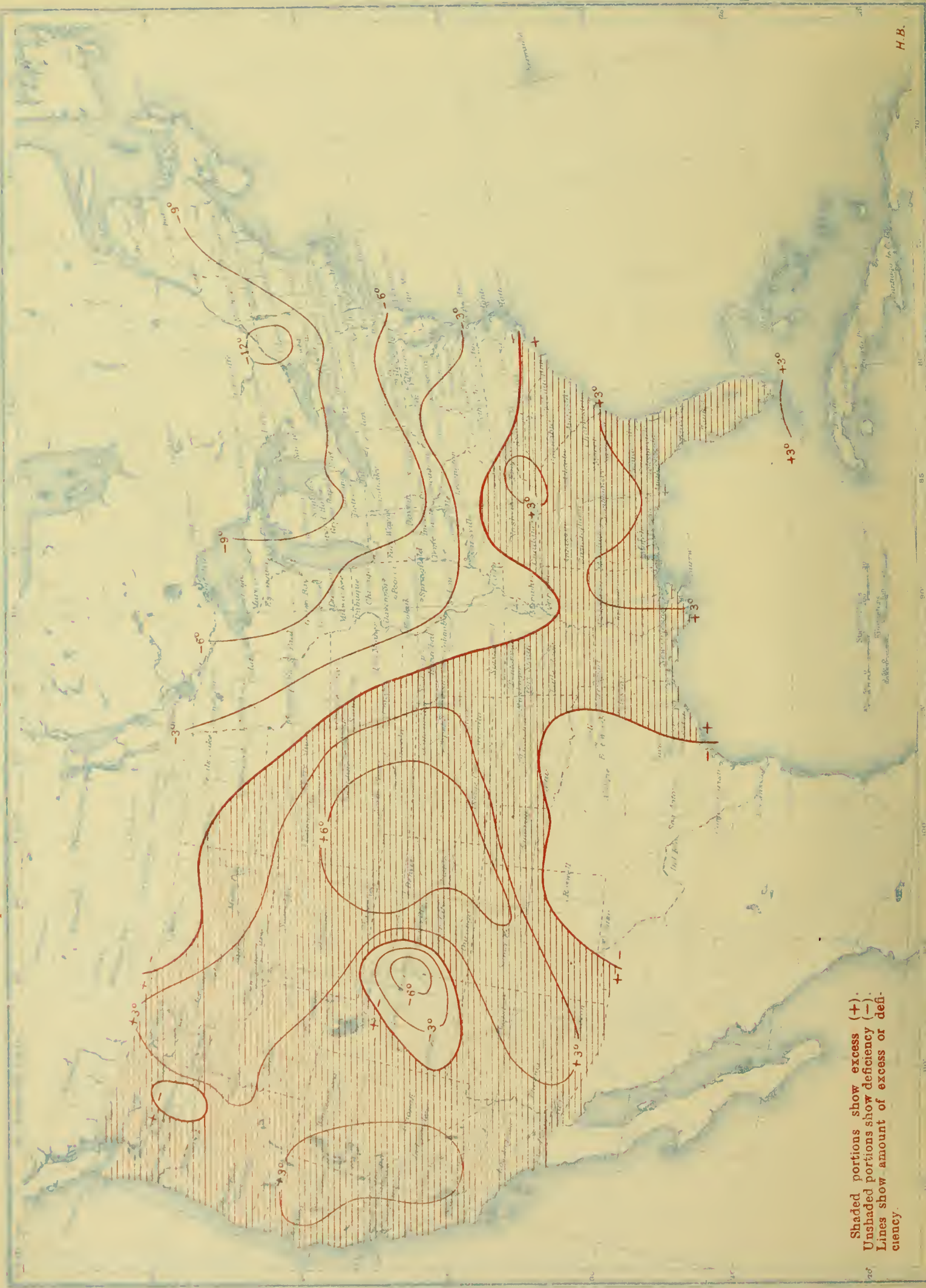
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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
FEBRUARY 26, 1920.

B

Departure of the Mean Temperature from the Normal, January, 1920.





U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., JANUARY, 1920.

No. 1.

## GENERAL SUMMARY.

The cold weather of the mid-winter month, January 1920, was notable as one of the five coldest since State averages were first compiled in 1885. The cumulative effect of steadily sub-normal warmth during the coldest season of the year is such as to produce an impression that such extreme conditions have not recently occurred, if ever, but January 1918, was the coldest January on record, being three degrees colder than this year. On the 1st, the temperature was slightly above normal, and similar conditions occurred from the 7th to 9th, and on the 13th and 30th. The coldest periods were on the 3d to 5th, 19th, 26th, and 31st. Ice in streams and ponds formed to thicknesses of 15 to 20 inches, and ice cutting was carried on on a large scale. The principal dates of snow, the 16th, 17th, 19th and 22d, furnished a light covering over the greater portion of the State, but it had practically disappeared at the close of the month. In northern districts there was considerable sleighing. There were frequent occurrences of high wind, velocities of 40 miles per hour or more, from the northwesterly quadrant on four days being recorded. The month closed with a severe cold wave, temperatures falling from in the 40's on the 30th to below zero on the 31st, attendant upon exceedingly high atmospheric pressure, (30.98 inches.) Other cold waves occurred on the 2d, 14th and 29th.

## TEMPERATURE.

The monthly mean temperature of the State as deduced from observations of 41 stations, was 23.6°, which was 6.2° below normal. The highest temperature was 53° at Atlantic City and Tuckerton on the 30th, and the lowest, 14° below zero at Culvers Lake on the 26th and 31st. The greatest daily range of temperature was 43° at Sussex on the 31st. The highest monthly mean was 28.9° at Cape May City and the lowest, 18.0 at Newton.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 46 stations, was 2.60 inches, which was 1.21 inch below normal. The greatest monthly precipitation was 3.53 inches at Hammonton, and the lowest, 1.61 inches at Charlotteburg. The average total snowfall was 6.6 inches, which was 2.1 inches below normal; this average depth ranged from 9.4 inches in the Highlands to 4.1 inches in the Southern Interior. The greatest precipitation accumulated in 24 hours

was 1.29 inches at Culvers Lake on the 9th. The average number of days on which 0.01 inch or more of precipitation fell was 11, which is the normal.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which is 1 more than normal; partly cloudy days, 7, or two less than normal; cloudy, 13, or 1 more than normal. The approximate percent of possible sunshine was 48, and was probably somewhat below normal.

## MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.20 inches, which was 0.09 inch above normal. The highest reading was 30.98 inches at Sandy Hook and Trenton on the 31st, and the lowest, 29.47 inches at Atlantic City on the 17th.

The mean stage of the Delaware River at Phillipsburg was 2.2 feet. At Trenton the mean daily stage was 3.1 feet, which was 0.5 foot below normal. The highest stage was 5.6 feet on the 10th and the lowest 2.2 feet on the 26th and 27th.

Dense fog occurred on the 1st, 2d, 3d, 8th and 9th. Haze occurred on the 1st, 21st and 24th. Sleet was observed at a few stations on the 1st, 7th, 8th and 25th, and quite generally throughout the State on the 9th, 20th, 21st, 22d, 23d, 24th and 27th. Solar halos were observed on the 3d, 6th, and 26th, and a lunar halo on the 2d, 3d, and 7th.

## COMPARATIVE DATA FOR JANUARY.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	30.8	67	0	4.08	5.41	3.33	.....	.....	.....	.....
1886.....	27.3	60	-10	4.47	5.59	3.08	.....	.....	.....	.....
1887.....	28.4	67	-6	3.86	6.65	2.00	.....	.....	12	10
1888.....	25.4	59	-12	4.77	6.74	2.80	.....	.....	12	9
1889.....	36.2	60	3	5.68	8.78	3.84	.....	.....	9	9
1890.....	41.3	78	12	2.29	3.22	1.05	.....	.....	11	10
1891.....	34.2	59	10	6.57	10.55	4.41	10	11	10	10
1892.....	29.9	67	-6	5.13	7.05	2.50	10	9	12	10
1893.....	21.6	54	-21	3.04	4.56	1.87	10	10	11	9
1894.....	34.2	61	-4	2.34	3.80	1.18	10	8	13	11
1895.....	28.1	64	-4	4.66	5.80	2.48	10	10	11	11
1896.....	28.6	61	-7	1.66	2.81	0.68	12	10	9	5
1897.....	29.0	64	-6	2.80	4.21	1.70	11	8	12	9
1898.....	32.6	64	-10	4.20	5.90	2.79	9	11	11	11
1899.....	30.1	60	-21	4.01	5.73	2.40	13	8	10	11
1900.....	32.4	64	-5	3.85	5.50	2.37	11	11	9	10
1901.....	30.4	63	-6	2.52	4.00	1.35	11	11	9	9
1902.....	28.4	58	-5	3.28	4.35	2.52	12	9	10	10
1903.....	30.4	57	-5	3.90	5.04	2.31	10	10	11	10
1904.....	23.3	58	-34	3.09	4.67	1.34	13	7	11	10
1905.....	27.0	60	-16	4.18	7.13	2.68	12	9	10	9
1906.....	36.5	74	-5	2.85	3.86	2.08	11	9	11	11
1907.....	31.8	71	-19	3.50	5.80	1.93	8	9	14	14
1908.....	31.8	60	-6	3.74	5.22	2.29	12	11	8	9
1909.....	33.2	69	-12	3.18	4.13	2.18	8	9	14	12
1910.....	29.7	54	-15	5.04	6.65	3.66	8	8	15	15
1911.....	33.5	63	0	3.44	5.34	1.97	10	7	14	14
1912.....	22.3	58	-32	2.82	4.62	1.73	8	12	11	13
1913.....	35.9	68	10	3.58	4.71	2.63	11	7	13	14
1914.....	31.9	73	-18	3.85	6.15	1.95	9	8	14	9
1915.....	33.5	61	-5	6.55	8.92	4.40	11	6	14	12
1916.....	35.1	74	-8	1.60	2.96	0.92	11	8	12	11
1917.....	31.4	58	-6	3.26	4.52	2.35	10	8	13	13
1918.....	20.3	56	-24	4.14	6.14	2.78	12	8	11	11
1919.....	34.1	62	-9	3.51	4.44	2.24	14	7	10	8
1920.....	23.6	53	-14	2.60	3.53	1.61	11	7	13	11



## Climatological data for January, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation 0.1 in. or more.	Clear.	Pt. cloudy.	Cloudy.		Prevailing direction of wind.
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere.....	Warren.....	289	29	20.5	-7.0	44	1†	-2	19	30	2.66	-1.09	1.20	7.0	6	14	4	13	.....	Samuel J. Hixson.
Charlotteburg.....	Passaic.....	719	28	19.8 <sup>b</sup>	-7.3	40	1	-5	31	31	1.61	-2.75	0.90	.....	8	18	4	9	nw.	George S. Briggs.
Culvers Lake.....	Sussex.....	848	19	.....	.....	.....	.....	.....	.....	.....	2.62	-0.56	1.29	15.2	10	15	6	10	e.	Brice E. Riker.
Dover.....	Morris.....	600	36	20.0	-6.6	47	27	-6	31	30	2.75	-1.74	1.22	8.8	10	2	19	10	.....	William C. Harris.
Layton.....	Sussex.....	480	20	18.2	-5.8	45	1	-10	19	38	2.64	-0.86	0.80	10.8	11	9	3	19	w.	A. M. Depue.
Newton.....	Sussex.....	769	39	18.0	-7.7	45	30	-6	31	38	2.03	-1.47	0.97	11.1	11	11	8	12	nw.	Irving G. Kern.
Phillipsburg.....	Warren.....	363	38	20.4	-7.5	44	30	-8	31	33	2.24	-1.41	0.98	7.9	10	9	9	13	nw.	D. Wilson Smith.
Sussex.....	Sussex.....	442	23	18.5 <sup>a</sup>	-7.6	47	28	-6	31	43	2.40	-1.21	0.83	11.2	10	.....	.....	.....	nw.	Rev. W. August George.
Means and extremes.....				19.3	-7.1	47	27†	-14	26†	43	2.37	-1.39	1.29	9.4	10	11	8	12	nw.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point.....	Hudson.....	37	23	23.7 <sup>a</sup>	-6.5	46	27	-1	31	35	2.75	-1.67	0.91	8.7	9	4	15	12	nw.	William H. Mitchell.
Boonton.....	Morris.....	400	30	20.1	.....	49	27	-7	19	34	2.07	-2.13	0.65	8.3	11	16	6	9	ne.	J. W. Demmers.
Chatham.....	Morris.....	330	18	.....	.....	.....	.....	.....	.....	.....	2.93	-0.96	0.94	.....	15	10	9	12	.....	George Shields.
Elizabeth.....	Union.....	45	41	24.0	-6.1	49	27	1	19	37	3.20	-0.90	0.75	6.7	12	7	13	11	nw.	L. B. Bonnett.
Flemington.....	Hunterdon.....	140	31	23.4	-6.2	46	27	1	19	34	2.49	-0.98	1.00	6.5	9	15	5	11	w.	Hiram E. Deats.
Highwood.....	Bergen.....	90	32	22.2	-6.7	47	1†	-5	20	37	2.62	-1.45	1.08	10.0	11	7	12	12	nw.	Charles J. Bates.
Jersey City.....	Hudson.....	10	21	25.2	-5.6	45	1†	0	31	36	2.96	-0.90	0.87	8.8	13	7	12	12	n.	S. K. Pearson, Jr.
Kearny.....	Hudson.....	.....	.....	22.9	.....	48	27	3	31	30	3.10	.....	1.05	10.0	11	10	7	14	ne.	Wm. J. Chandler, M. D.
Lambertville.....	Hunterdon.....	80	33	22.2	-8.2	41	1	0	19	37	2.08	-1.66	0.83	5.5	9	9	8	14	n.	Thomas R. Hunt.
Little Falls.....	Passaic.....	180	17	22.7	.....	50	27	-2	31	41	3.00	-1.22	0.95	8.0	12	16	3	12	nw.	Montclair Water Co.
Newark.....	Essex.....	159	78	22.5	-7.1	51	27	-3	31	32	2.05	-1.71	1.13	6.8	8	11	12	8	nw	Prof. William Wiener.
New Brunswick.....	Middlesex.....	110	67	24.0	-6.5	45	27	4	19†	36	2.64	-1.17	0.97	8.3	10	11	7	13	n.	N. J. Experiment Station.
New Milford.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2.36	.....	0.89	.....	11	.....	.....	.....	.....	Hackensack Water Co.
North Plainfield.....	Somerset.....	110	.....	22.0	.....	46	27	-1	19†	33	2.59	.....	1.00	8.1	13	8	11	12	n.	E. D. Pearson.
Paterson.....	Passaic.....	80	49	23.8	-5.6	52	27	0	31	36	2.45	-1.59	1.00	7.8	13	.....	.....	.....	nw.	Marion T. Probert.
Plainfield.....	Union.....	100	33	22.4	-7.0	48	27	-1	19†	31	2.41	-1.48	0.85	6.7	9	12	8	11	nw.	John C. Sutphen.
Pompton Plains.....	Morris.....	195	18	.....	.....	.....	.....	.....	.....	.....	2.50	-1.89	1.03	11.0	7	.....	.....	.....	nw.	M. S. Taylor.
Ridgefield.....	Bergen.....	70	5	21.6	.....	47	27	-4	31	29	2.56	.....	1.05	9.8	12	9	9	13	nw.	George P. Kirsten.
Somerville.....	Somerset.....	60	38	24.1	-5.1	49	27	1	19	36	3.35	-0.13	1.05	6.0	13	11	6	14	ne.	Peter V. D. Hardcastle.
South Orange.....	Essex.....	200	50	22.6 <sup>a</sup>	-6.1	47	27	2	19	.....	2.84	-1.30	0.90	7.5	12	.....	.....	.....	w.	Wm. H. Meeder.
Woodcliff Lake.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2.23	-1.56	0.84	7.8	14	4	12	15	nw.	Hackensack Water Co.
New York, N. Y.....		365	50	24.1	-6.1	49	27	-3	31	30	2.23	-1.56	0.84	7.8	14	4	12	15	nw.	U. S. Weather Bureau.
Means and extremes.....				22.9	-6.4	52	27	-7	19	41	2.64	-1.32	1.13	8.0	11	10	9	12	nw.	
<i>The Southern Interior.</i>																				
Bridgeton.....	Cumberland.....	30	39	26.9	-6.1	52	30	5	5	30	2.81	-0.93	0.65	2.9	11	16	4	11	nw.	Henry A. Jorden.
Burlington.....	Burlington.....	12	34	24.9	-5.9	45	30	4	19	26	2.86	-0.86	0.86	5.4	11	15	2	14	w.	D. S. B. McCoy.
Camp Dix.....	Burlington.....	.....	2	24.5 <sup>a</sup>	.....	44	30	-5	19	34	2.43	.....	0.55	.....	11	3	7	21	nw.	U. S. Army.
Clayton.....	Gloucester.....	126	28	26.5 <sup>b</sup>	-4.4	44	1	-2	19	40	2.40	-1.36	0.56	1.6	11	20	3	8	nw.	Marvin Porch.
Hammonton.....	Atlantic.....	103	18	.....	.....	.....	.....	.....	.....	.....	3.53	-0.42	.....	2.0	10	15	8	8	nw.	G. H. Parkhurst.
Hightstown.....	Mercer.....	120	27	23.5	-7.4	44	27	0	19	35	2.53	-1.16	0.95	5.2	12	11	8	12	nw.	Rev. W. A. Stanton.
Imlaystown.....	Monmouth.....	185	31	24.4	-7.3	43	27	-4	19	32	2.23	-1.22	0.62	8.2	12	15	4	12	w.	Wm. R. Hendrickson.
Indian Mills.....	Burlington.....	76	31	25.0	-6.4	50	30	-7	19	35	3.29	-0.41	1.10	3.5	12	9	8	14	nw.	James M. Armstrong.
Lakewood.....	Ocean.....	54	17	24.9	-7.2	45	27†	-6	19	34	3.51	-0.27	0.80	5.0	12	9	6	16	nw.	R. W. Holman.
Moorestown.....	Burlington.....	75	58	25.8	-4.3	44	30	6	19	26	2.34	-1.14	0.73	4.0	10	11	6	14	nw.	David S. Haines.
Northfield.....	Atlantic.....	25	13	.....	.....	.....	.....	.....	.....	.....	2.83	-0.68	0.68	1.8	12	.....	.....	.....	.....	William L. Flick.
Pleasantville.....	Atlantic.....	26	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15	3	13	.....	Lincoln Van Gilder.
Trenton.....	Mercer.....	190	49	23.2	-7.3	44	30	-1	31	26	2.40	-0.77	0.90	5.0	12	6	10	15	n.	U. S. Weather Bureau.
Tuckerton.....	Ocean.....	23	27	27.4	-4.3	53	30	-5	19	42	2.20	-1.46	1.06	6.0	8	14	6	11	.....	Frank R. Austin.
Vineland.....	Cumberland.....	109	52	27.0	-5.0	50	39	5	19	28	2.83	.....	0.81	2.5	10	11	5	15	nw.	H. C. Himes.
Woodbine.....	Cape May.....	43	29	28.0 <sup>a</sup>	-4.4	49	26	5	16	41	.....	.....	.....	.....	.....	6	4	11	.....	Jos. H. Cohen.
Philadelphia, Pa.....		117	50	26.8	-5.0	49	30	5	31	28	2.71	-0.70	0.80	5.9	12	8	7	16	nw.	U. S. Weather Bureau.
Means and extremes.....				25.6	-5.8	53	30	-7	19	42	2.73	-0.88	1.10	4.1	11	12	6	13	nw.	
<i>The Sea Coast.</i>																				
Asbury Park.....	Monmouth.....	22	31	26.6	-4.8	44	30	5	19	33	1.76	-1.98	0.66	.....	8	14	5	12	nw.	Miss Dorothy A. Alexander.
Atlantic City.....	Atlantic.....	16	47	28.3	-4.2	53	30	7	31	29	2.87	-0.53	0.86	2.6	15	11	4	16	nw.	U. S. Weather Bureau.
Cape May City.....	Cape May.....	17	36	28.9	-5.1	49	30	7	31	29	3.38	-0.01	1.10	1.7	10	11	5	15	nw.	U. S. Weather Bureau.
Long Branch.....	Monmouth.....	25	13	23.4	-7.1	43	1†	3	19†	24	1.67	-2.64	0.46	6.0	10	9	8	14	nw.	William D. Martin, Jr.
Sandy Hook.....	Monmouth.....	22	22	24.6	-5.1	42	1	4	31	26	2.20	-1.90	0.80	5.9	12	7	11	13	nw.	U. S. Weather Bureau.
Means and extremes.....				26.4	-5.3	53	30	3	19†	33	2.38	-1.41	1.10	4.0	11	10	7	14	nw.	
For the State.....				23.6	-6.2	53	30	-14	26†	43	2.60	-1.21	1.29	6.6	11	11	7	13	nw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

‡ Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Hackensack; Ridgefield is Morserene.



Daily precipitation for January, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>The Highlands and Kittatinny Valley.</i>																																		
Belvidere.....	Delaware.....								.12	1.20								.34		.38				.42	.20								2.66	
Charlotteburg.....	Passaic.....								* .90		.05						.17		.13				.10		.20								1.61	
Culvers Lake.....	Delaware.....								.03	1.29	T.	.07		T.			T.	.22		.18	.08	.09		.29	.28	.08			T.				2.62	
Dover.....	Passaic.....								* 1.22		.05						.28		.40			*	*	*	.76			.01					2.75	
Layton.....	Delaware.....	T.							.22	.80		.18	T.		T.		.03	.17		.22	.04	.20		.34	.35	.09							2.64	
Newton.....	Delaware.....								.20	.97		.03		T.			.06	.09			T.	.05	T.	.23	.29	.04		.03	.04				2.03	
Phillipsburg.....	do.....	.01							.30	.91				T.	T.	T.	.17	.03		.33	.03	T.	.20	.17	.09	T.			T.				2.24	
Sussex.....	Hudson.....								.18	.83		.02	.29					.19		.27		.02		.40	.17	.03							2.40	
<i>The Red Sandstone Plain.</i>																																		
Bergen Point.....	Coast.....	.17					T.	T.	.16	.91		T.	T.	T.	T.		.08	.18		.24	T.	T.	T.	.21	.63	T.		.17					2.75	
Boonton   .....	Passaic.....	T.							T.	.02	.65	.22		.02		T.		.23		.02	.01	.23	.04		.14	.23	.23		.05	T.	T.		2.07	
Chatham   .....	do.....							.04	.94	.37		.02		.01	.02		.23		.02		.01	.23	T.	.24	.26	.42		.11		.01			2.93	
Elizabeth.....	Coast.....	.02							T.	* 1.22		.02		T.	T.		.34		.25	T.	.05	*	*	*	1.15			.15					3.20	
Flemington.....	Raritan.....	.03							T.	.16	1.00			T.	T.		T.	.20		.40		.06	.05	.07	.52								2.49	
Highwood.....	Hackensack.....	T.							.01	1.08		.03		T.	T.		.16	.21		.24	T.		.01	.01	.69	.05		.13	T.				2.62	
Jersey City**.....	Coast.....	.02						T.	.20	.87		.01	T.	T.	T.		.03	.24		.24	T.	.06	.19	.22	.70	.05		.13	T.				2.96	
Kearny.....	Coast.....	T.							T.	.23	1.05	.05	.05		T.		*	.26		.22	.05	.21			.87	T.	.11						3.10	
Lambertville.....	Delaware.....	.03							T.	.11	.80			T.	T.		*	.09		*	.22	T.	T.	*		.83		T.					2.08	
Little Falls.	Passaic.....		T.						.02	.95	.10		.05		T.			.51			.17	.01		.29	.26	.59		T.	.03	.02			3.00	
Newark**.....	Coast.....	T.							T.	.12	1.13		.03	T.	T.		.23		T.	.18	T.	T.	.26	.08	.08								2.05	
New Brunswick.....	Raritan.....								.13	.97		T.	T.	T.			T.	.11		.17	T.	.07	.02	.55	.47	.01		.14	T.				2.64	
New Milford.....	Hackensack.....								.31	.89							.17					.08		.03	.04			.84					2.36	
Paterson.....	Passaic.....	.02							T.	.12	1.00		.02		T.		.08	.22		.08	T.	.02	.08	.28	.50	.02		T.	.03				2.47	
Plainfield.....	Raritan.....								.15	.85		T.		T.			.13	.10		.26	T.	.03	.30	.25	.34	T.							2.41	
Pompton Plains	Passaic.....									1.03	.21						.31			.29			*	.27	.06	.33							2.50	
Ridgefield.....	Hackensack.....								.12	1.05		.05		T.			.30	T.	.27	T.	.05	*	.20	.24	.21	T.	.07	T.					2.56	
Somerville.....	Raritan.....	.02							T.	.18	1.05	.05	T.	T.			.55	.10		.25	.05	.10	.05	.30	.50			.15	T.				3.35	
South Orange.....	Rahway.....																																	
Woodcliff Lake.....	Hackensack.....							T.	.34	.90		.01		T.			*	.28	T.	.26	T.	.06	*	*	.98	*		.01					2.84	
New York, N. Y***	Coast.....	.02						T.	.22	.67		.02		T.	T.	T.	.14	.09	T.	.24	.02	.02	.17	.19	.26	.01		.16	T.	T.			2.23	
<i>The Southern Interior.</i>																																		
Bridgeton.....	Coast.....	.18		T.					.28	.15							.20			.12	T.	.35	.20	.25	.65		.25	.18					2.81	
Burlington.....	Delaware.....	.13							.13	.86					T.		.14	.02		.18		.20	.14	.31	.55	T.		.20					2.86	
Camp Dix.....	Delaware.....	.19						.02	.38	.55							.09	.02		.09		.30	.26	.16	.37								2.43	
Clayton.....	Maurice.....	.12							.22	.35							.06			.05		.20	.30	.56	.39	.06		.09					2.40	
Hammononton.....	Mullica.....	.19		T.					.21	.23							.23			.08		.33	T.	*	1.42	.42		.42					3.53	
Hightstown.....	Raritan.....	.10							.16	.95							.03	.13		.14		.12	.08	.30	.42	.06		.04					2.53	
Imlaystown.....	Delaware.....	.12							.15	.62							.01	.20		.13		.15	.08	.35	.33	.05		.04					2.23	
Indian Mills.....	Mullica.....	.20		T.					.24	.38							.10	.05		.18		.40	.08	.14	1.10	.20		.22					3.29	
Lakewood.....	Metedeconk.....	.12						T.	.22	.65							.08	.19		.12		.25	.15	.40	.80	.06		.47	T.				3.51	
Moorestown.....	Delaware.....	.13							.02	.73							.07		.08		.28	.24	.31	.33	.15								2.34	
Northfield.....	Coast.....	.21							.33	.06							.02	.25		.03		.24	.18	.48	.68	.08		.27					2.83	
Pleasantville.....	Coast.....																																	
Trenton***.....	Delaware.....	.16							T.	.23	.78		T.	T.	T.	T.	.13	.06		.13	.02	.11	.20	.21	.25		.12	T.					2.40	
Tuckerton.....	Coast.....																.33		.09	*	.20		.60	.46	.17		.35						2.20	
Vineland.....	Maurice.....	.23							T.	.08	.15					*			*			.59	*	.62	.81	T.	.35							2.83
Woodbine.....	Coast.....																																	
Philadelphia, Pa..	Delaware.....	.12	T.					.01	.26	.59				T.	T.		.14	.02		.21	T.	.25	.34	.30	.46	T.		.01	T.				2.71	
<i>The Sea Coast.</i>																																		
Asbury Park.....	Coast.....	.05							.18	.62		T.			T.		.12	T.		.03	T.	.10			.66			T.					1.76	
Atlantic City***.....	do.....	.18	.01						T.	.28	.03				T.		.27	.12		.05	.01	.24	.22	.36	.81	.01	.07	.21					2.87	
Cape May City.....	do.....	.15		T.					T.	.29	T.				T.		.10	T.		.02		.21	.44	.33	1.10	.22	T.	.52					3.38	
Long Branch**.....	do.....	.12							T.	.10	.46		T.				.17	.10		.07	.09	.10		.19	.29	T.		.08					1.67	
Sandy Hook***.....	do.....	.06							T.	.17	.75		T.	T.			.13	.10		.21	.02	.07	.08	.20	.36			.05	T.				2.20	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T, Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.			Moisture.		Sun-shine	
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine.
							Miles per hour.	Direction.	Date.			
Atlantic City.....	30.20	30.91	31	29.47	17	9	29	nw.	14	77	73	39
Cape May City.....	30.23	30.91	31	29.58	1	10	34	nw.	14	75	74	.....
Long Branch.....							70	nw.	18			.....
Newark.....							30	nw.	14	72*	65†	54
New York, N. Y.....	30.18	30.96	31	29.49	17	20	74	nw.	14	65	61	39
Philadelphia, Pa.....	30.23	30.97	31	29.52	1	12	37	n.	31	70	66	38
Ridgefield.....	30.18	30.97	31	29.48	17							.....
Sandy Hook.....	30.19	30.98	31	29.49	1	18	56	nw.	14	76	73	54
Trenton.....	30.19	30.98	31	29.51	17	14	49	nw.	14	77	73	43

§ Two directions and dates

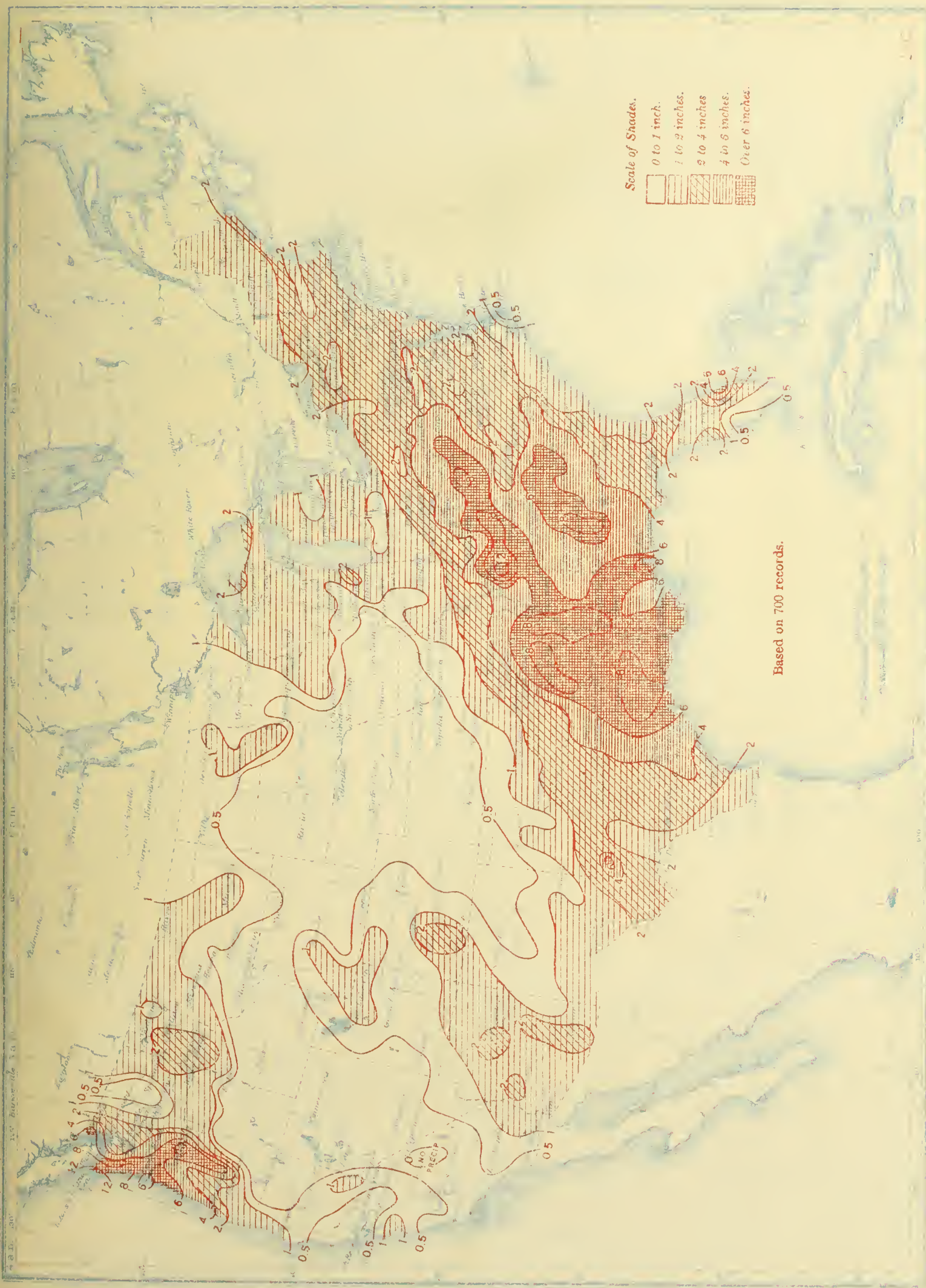
\* 7 a. m



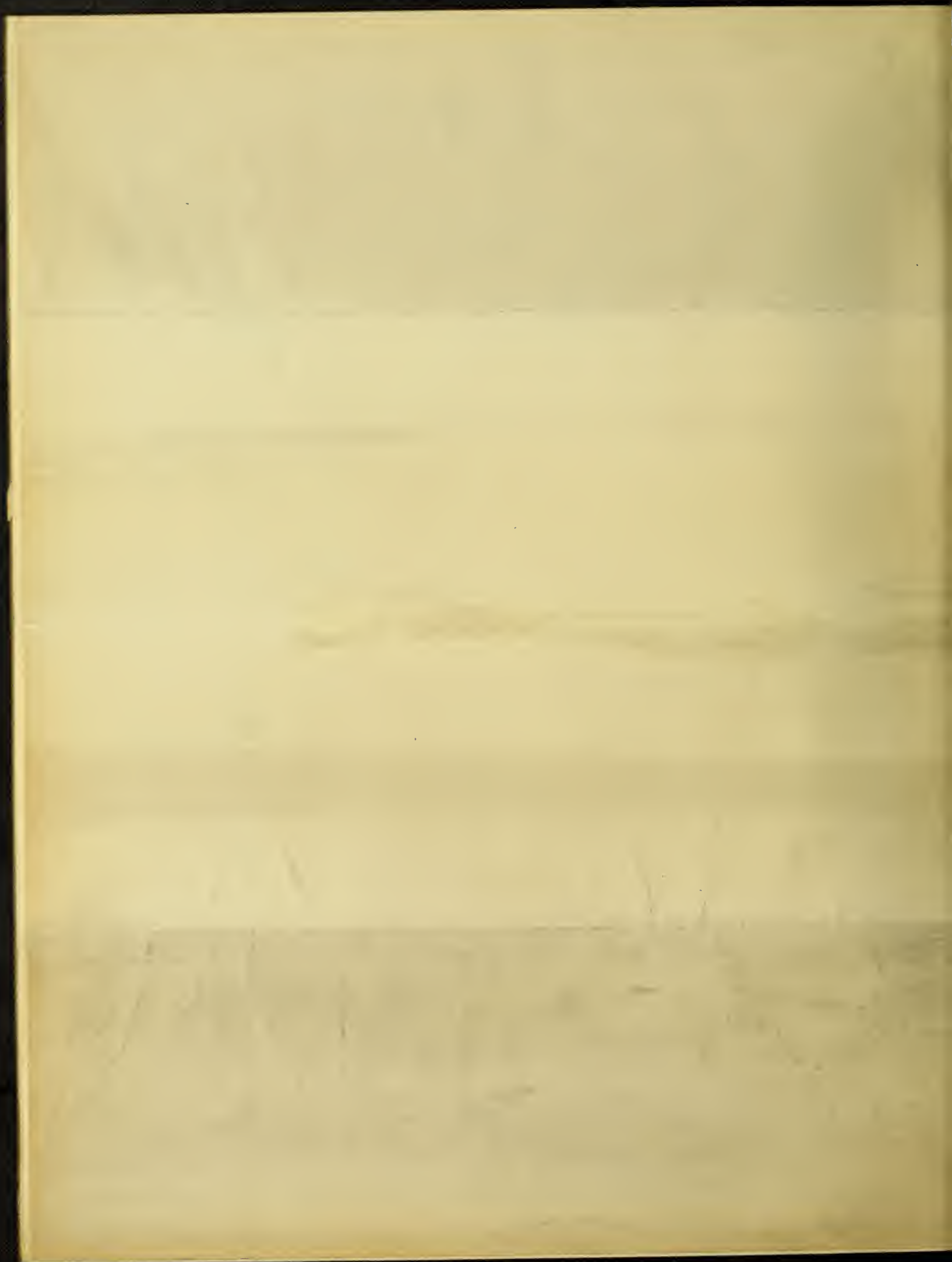
## Daily temperatures for January, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.			
The Highlands and Kittatinny Valley																																			
Belvidere.....	Maximum	41	30	16	21	24	34	35	35	36	35	33	34	36	20	23	13	28	20	19	31	18	19	32	25	12	44	37	...	44	25	28.2 <sup>a</sup>			
	Minimum	25	10	4	6	4	6	20	29	28	21	20	24	19	15	10	4	5	9	-2	3	11	9	15	24	12	-1	19	24	7	14	0	12.8		
Charlotteburg.....	Maximum	40	37	29	28	23	31	33	38	37	30	31	29	34	...	...	...	25	27	23	21	28	23	29	28	29	23	39	27	29	38	35	30.1 <sup>a</sup>		
	Minimum	24	6	1	4	-1	9	16	29	30	16	16	21	11	...	...	...	5	-1	6	8	3	11	8	16	14	11	-3	...	12	6	-5	9.5 <sup>b</sup>		
Dover.....	Maximum	42	27	15	18	20	32	33	37	37	34	30	35	26	21	10	27	20	13	19	33	22	30	30	22	18	47	37	29	41	24	27.7			
	Minimum	27	9	3	6	1	11	19	30	31	18	20	15	16	8	7	2	10	8	1	5	16	12	22	22	6	2	18	13	9	18	-6	12.2		
Layton.....	Maximum	45	32	15	17	21	34	32	35	35	30	33	31	18	11	27	18	11	16	32	21	27	30	24	12	42	38	22	41	33	27.4				
	Minimum	25	3	1	-2	1	2	20	28	30	18	18	20	12	10	5	-1	3	7	-10	-7	9	-2	17	24	8	-4	10	22	0	14	-5	8.9		
Newton.....	Maximum	42	26	14	18	20	31	32	36	34	34	29	30	34	32	20	12	25	17	11	12	31	22	25	30	22	9	43	40	21	45	32	26.7		
	Minimum	24	7	-2	6	-2	12	20	28	28	17	19	20	...	...	...	10	5	-1	1	10	9	13	18	7	-4	6	19	6	16	-6	9.4 <sup>a</sup>			
Phillipsburg.....	Maximum	42	28	14	19	22	31	35	35	36	34	34	31	38	29	22	14	26	20	14	17	34	18	32	32	22	12	41	37	26	44	25	27.9		
	Minimum	27	10	4	6	4	11	21	32	32	21	25	22	23	12	10	4	6	8	4	8	16	10	17	21	7	1	11	13	9	15	-8	13.0		
Sussex.....	Maximum	44	36	18	19	21	28	32	32	31	13	21	11	...	...	...	33	25	18	27	20	15	13	33	23	26	30	22	12	46	47	32	40	37	27.9 <sup>c</sup>
	Minimum	27	6	3	5	2	8	12	10	31	13	21	11	...	...	...	7	-1	3	8	0	8	10	5	11	10	-4	8	25	4	11	-6	9.1 <sup>a</sup>		
The Red Sandstone Plain.																																			
Bergen Point.....	Maximum	45	35	19	22	22	36	39	38	38	43	39	34	40	36	25	18	30	26	19	26	...	27	36	37	29	17	46	40	29	43	34	32.3 <sup>a</sup>		
	Minimum	32	14	7	10	5	14	22	32	32	...	21	25	21	12	10	6	12	10	5	7	16	14	21	29	11	4	15	21	11	16	-1	15.1 <sup>a</sup>		
Boonton.....	Maximum	45	20	17	20	22	36	35	37	37	31	32	30	37	23	23	20	29	22	15	31	36	25	32	30	20	30	49	39	28	44	7	29.1		
	Minimum	24	10	5	5	1	4	18	22	30	19	17	24	14	19	8	3	4	10	-7	-3	2	10	15	24	16	0	3	28	9	12	-1	11.1		
Elizabeth.....	Maximum	45	36	19	24	24	37	38	37	37	36	34	33	40	37	26	20	30	23	17	20	34	31	34	31	17	49	43	40	32	39	32.0			
	Minimum	27	13	7	8	4	11	20	33	32	22	22	26	19	18	10	6	12	10	1	3	20	34	31	34	31	17	49	43	40	32	39	32.0		
Flemington.....	Maximum	44	35	18	22	26	32	36	35	35	35	34	34	38	26	19	29	23	15	18	34	27	30	32	30	16	46	39	29	43	38	30.8			
	Minimum	28	13	7	8	6	12	18	33	32	25	23	27	21	17	13	7	11	12	-1	6	17	17	21	30	16	6	16	26	12	17	4	16.1		
Highwood.....	Maximum	47	35	20	21	20	36	38	38	38	36	35	32	40	33	24	16	30	22	16	21	37	28	32	34	26	17	47	40	27	42	33	31.0		
	Minimum	29	13	7	7	3	7	22	33	32	22	21	17	12	10	3	11	10	3	11	0	-5	20	22	22	7	3	17	22	6	18	-4	13.5		
Jersey City.....	Maximum	45	33	21	24	23	35	38	39	39	37	35	35	40	36	25	18	32	24	21	26	35	32	34	34	32	22	45	42	29	41	36	32.5		
	Minimum	33	15	8	12	5	15	25	35	34	23	26	25	25	15	12	7	14	12	8	11	23	17	25	28	9	5	18	20	13	14	3	16.0		
Kearny.....	Maximum	45	30	13	20	22	36	38	39	39	39	34	32	36	32	23	14	28	18	18	22	34	24	31	34	25	20	48	40	40	31	29.8			
	Minimum	30	12	7	9	4	16	27	35	35	21	26	24	24	11	10	5	12	10	7	5	22	14	23	25	9	5	18	20	13	14	3	16.0		
Lambertville.....	Maximum	41	...	14	18	20	32	37	36	37	35	34	35	38	25	24	19	25	20	15	19	31	29	30	32	16	40	39	28	40	40	31	29.8		
	Minimum	29	10	5	7	4	10	19	33	32	22	22	25	21	17	12	6	12	10	7	5	22	14	23	25	9	5	18	20	13	14	3	16.0		
Little Falls.....	Maximum	45	22	18	20	23	36	39	40	37	31	35	31	39	24	23	22	31	23	17	33	36	27	34	34	23	34	50	41	29	43	8	30.6		
	Minimum	15	8	8	6	8	20	26	33	23	23	28	20	22	12	7	8	13	5	3	10	15	18	27	18	6	10	34	13	19	3	2	14.8		
Newark.....	Maximum	44	30	15	18	22	36	37	39	38	35	32	31	39	27	21	11	26	19	18	24	36	24	32	33	25	19	51	40	26	43	25	29.5		
	Minimum	30	11	7	6	3	16	27	35	35	21	25	24	24	9	9	4	12	9	5	9	21	16	24	25	12	5	19	15	11	19	-3	15.5		
New Brunswick.....	Maximum	43	39	31	21	21	31	34	36	37	37	35	34	39	28	17	31	24	15	5	15	16	22	29	15	5	15	30	11	20	4	16.3			
	Minimum	29	13	6	9	5	12	22	34	32	22	24	28	21	16	12	6	10	13	4	11	11	5	5	18	13	31	31	27	17	52	43	36	31.8	
Paterson.....	Maximum	47	39	21	14	22	37	38	38	39	37	35	32	40	37	25	18	32	18	15	20	37	31	31	33	27	17	52	43	29	45	36	31.8		
	Minimum	29	14	7	9	5	15	23	35	32	22	21	26	22	17	10	4	11	11	5	5	18	13	23	21	15	4	17	21	12	21	0	15.8		
Plainfield.....	Maximum	45	32	18	22	21	34	37	36	36	35	34	33	39	33	25	14	29	23	14	24	16	23	34	25	31	32	32	18	48	41	28	42	30	30.5
	Minimum	30	13	6	9	4	11	18	32	31	21	21	20	19	12	10	6	12	10	-1	2	22	15	23	26	12	4	17	15	10	17	-1	14.4		
Ridgefield.....	Maximum	44	28	18	21	20	35	37	37	37	35	35	30	39	29	23	14	29	23	17	24	14	24	31	32	20	18	47	40	25	41	24	29.4		
	Minimum	27	11	7	8	3	11	24	35	32	21	22	18	24	10	9	4	13	9	3	0	35	30	33	33	33	18	48	42	30	42	40	32.5		
Somerville.....	Maximum	45	39	29	24	23	35	37	37	38	36	35	34	38	37	25	21	30	24	17	20	35	30	33	33	33	18	48							









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# CLIMATOLOGICAL DATA

## NEW JERSEY. SECTION

FEBRUARY, 1920.

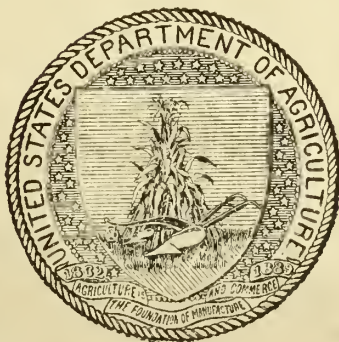
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BY

G. HAROLD NOYES

METEOROLOGIST

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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
APRIL 27, 1920.



# Departure of the Mean Temperature from the Normal, February, 1920.



Shaded portions show excess (+).  
 Unshaded portions show deficiency (-).  
 Lines show amount of excess or deficiency.



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., FEBRUARY, 1920.

No. 2.

## GENERAL SUMMARY.

February in New Jersey is frequently as cold or colder than January, so that the general severity of a winter is often rendered more impressive by the conditions that prevail in February. In 1920 the month was cold very continuously, but not quite so cold as January. The first day of February was below zero over nearly all the State, but it became more moderate, and there was a period of thawing weather from the 10th to the 14th, and one very warm day on the 18th, but thereafter temperatures were almost continuously subnormal. A severe storm on the 4th-5th-6th, consisting mostly of sleet, but with some drifting snow, very effectually blocked traffic until the 10th, in northern and central portions of the State. Some country roads in northern districts were not opened at all, and travelers went across fields, where possible. There having been so much sleet, after a few days with a little mid-day thawing, the ground became coated with three to six inches of solid ice. Later occurrences of snow maintained the ice and snow cover on the ground through the close of the month. Highway traffic was impeded more than ever before since the advent of the motor truck, and, with gradual opening of travel, an enormous amount of damage to road surfaces occurred. Rail traffic, except street car lines, was not seriously disrupted. Conditions in southern counties were far less severe, but in extreme northern counties some roads were totally blocked at the close of the month, except to equestrians or sleighs.

Practically a maximum ice crop was harvested. The average thickness of ice in the Delaware, above tidewater, ranged from about 10 to 20 inches, being 18 inches at Trenton at the close of the month.

This month was a spectacular contrast with that of one year ago, when no inconsiderable amount of plowing and planting was accomplished.

## TEMPERATURE.

The monthly mean temperature of the State as deduced from observations of 41 stations, was 27.9°, which was 2.1° below normal. The highest temperature was 54° at Vineland on the 18th, and the lowest, 25° below zero at Culvers Lake on the 15th. The greatest daily range of temperature was 40° at Sussex on the 1st. The highest monthly mean was 31.6° at Bridgeton, and the lowest, 22.9° at Layton.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 46 stations, was 4.20 inches, which was 0.26 inch above normal. The greatest monthly precipitation was 7.20 inches at Tuckerton, and the lowest, 2.39 inches at Clayton. The average total snowfall was 20.0 inches, which was

9.8 inches above normal; this average depth ranged from 24.1 in the Highlands to 14.8 inches in the Southern Interior. The greatest precipitation accumulated in 24 hours was 2.68 inches at Trenton on the 4th-5th. The average number of days on which 0.01 inch or more of precipitation fell was 11, which was 2 more than normal.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11; partly cloudy days, 8; cloudy days, 10, which was normal. The approximate percent of possible sunshine was 51, and was probably somewhat below normal.

## MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.01 inches, which was 0.09 inch below normal. The highest reading was 31.00 inches at Newark and Palisades Park on the 1st, and the lowest, 29.35 inches at Palisades Park on the 25th.

The mean stage of the Delaware River at Phillipsburg was not recorded; river frozen. At Trenton the mean daily stage was 2.6 feet, which was 0.9 feet below normal. The highest was 3.1 feet on the 10th and lowest 2.3 feet on the 2d, 6th, 7th.

Dense fog occurred on the 2d, 3d, 22d, 23d, 24th. Haze occurred on the 4th and 11th. Sleet was observed at a few stations on the 10th, 13th, 21st, 22d, and quite generally throughout the State on the 4th, 5th, 6th, and 23d. Solar halos were observed on the 7th, 11th, 12th, 13th, 21st, 28th. Thunderstorms occurred at a few stations on the 14th and 15th; an ice storm on the 13th; and hail occurred at a few stations on the 14th and 22d.

## COMPARATIVE DATA FOR FEBRUARY.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	23.9	54	-2	3.93	5.85	1.44	.....	.....	.....	.....
1886.....	28.9	64	-10	5.42	8.00	4.13	.....	.....	.....	.....
1887.....	33.9	69	6	5.24	6.74	4.13	.....	.....	13	13
1888.....	30.6	60	-5	3.53	6.01	2.04	.....	.....	9	8
1889.....	27.7	53	-3	2.49	3.80	1.65	.....	.....	9	8
1890.....	39.9	76	14	4.17	5.32	2.43	.....	.....	12	10
1891.....	38.0	71	1	5.11	7.20	3.70	6	9	13	14
1892.....	33.6	58	7	1.63	3.62	0.67	7	9	13	7
1893.....	30.1	63	-1	5.73	8.90	3.14	7	8	13	11
1894.....	29.7	62	-11	4.42	6.17	3.25	9	8	11	11
1895.....	23.6	57	-12	1.28	2.34	0.55	13	9	6	5
1896.....	32.1	62	-12	6.77	10.06	4.82	9	9	11	12
1897.....	32.5	59	-6	3.61	6.37	2.38	8	10	10	8
1898.....	32.7	65	-15	3.48	5.45	1.55	12	7	9	9
1899.....	25.8	60	-17	6.06	8.77	3.78	10	6	12	15
1900.....	31.0	69	-6	5.30	7.88	3.27	9	9	10	10
1901.....	25.4	52	-6	0.94	1.65	0.69	15	9	4	4
1902.....	27.4	62	-7	6.24	8.44	4.29	12	6	10	9
1903.....	33.7	70	-16	4.87	6.60	3.74	12	8	8	10
1904.....	24.8	65	-16	2.45	3.09	1.36	13	8	8	8
1905.....	23.4	53	-18	2.53	3.96	0.70	14	7	7	7
1906.....	30.9	64	-12	2.58	3.85	1.77	14	7	7	7
1907.....	23.6	55	-22	2.67	3.90	1.82	14	7	7	8
1908.....	28.1	65	-17	4.79	7.44	2.85	10	10	9	9
1909.....	37.8	72	-2	4.96	6.78	3.55	6	10	12	12
1910.....	30.5	69	-11	3.08	4.81	1.06	10	9	9	10
1911.....	30.9	67	-12	2.78	4.06	1.76	8	7	13	11
1912.....	27.7	61	-14	2.49	3.12	1.68	11	12	6	5
1913.....	30.6	70	-5	2.49	3.21	1.48	16	6	6	7
1914.....	25.9	67	-17	2.85	4.94	1.89	12	7	9	9
1915.....	35.7	75	2	5.37	7.28	2.97	11	6	11	8
1916.....	28.1	63	-18	4.21	6.17	2.84	10	6	13	11
1917.....	28.1	62	-17	1.95	2.80	0.92	10	9	9	11
1918.....	29.0	67	-23	2.08	3.41	1.03	12	8	8	7
1919.....	33.6	65	4	3.39	6.48	1.37	15	4	9	10
1920.....	27.9	54	-25	4.20	7.20	2.39	11	8	10	11



## Climatological data for February, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.	Cloudy.		Prevailing direction of wind.	
<i>The Highlands and Kittatinny Valley.</i>																					
Belvidere.....	Warren.....	289	29	26.0	-1.4	50	18	-10	1	34	3.77	-0.70	0.85	20.2	8	16	7	6	.....	Samuel J. Hixson.	
Charlotteburg.....	Passaic.....	719	28	24.6 <sup>a</sup>	-1.7	45	18	-12	1	27	3.54	-1.29	2.15	18.5	7	15	12	2	nw.	George S. Briggs.	
Culvers Lake.....	Sussex.....	848	19	.....	.....	.....	.....	.....	1	.....	2.65	-0.82	0.90	35.1	13	9	1	20	8	n.	Brice E. Riker.
Dover.....	Morris.....	600	36	24.6	-1.6	47	18	-7	1	28	2.80	-1.59	.....	28.0	9	1	12	8	.....	William C. Harris.	
Layton.....	Sussex.....	480	20	22.9	-1.2	44	18	-16	1	34	4.00	-0.42	2.15	26.5	11	10	5	14	ne.	A. M. Depue.	
Newton.....	Sussex.....	769	39	23.1	-2.6	44	18	-15	1	28	3.09	-0.88	1.33	25.6	10	7	11	11	ne.	Irving G. Kern.	
Phillipsburg.....	Warren.....	363	38	26.2	-1.6	50	18	-11	1	29	4.39	+0.46	1.35	21.4	12	12	10	7	w.	D. Wilson Smith.	
Sussex.....	Sussex.....	442	29	23.1 <sup>a</sup>	-3.1	48	15	-14	1	40	2.59	-1.08	1.22	17.5	8	11	12	6	nw.	Rev. W. August George.	
Means and extremes.....				27.3	-1.9	50	18	-25	1	40	3.36	-0.79	2.15	24.1	10	10	11	8	nw.		
<i>The Red Sandstone Plain.</i>																					
Bergen Point.....	Hudson.....	37	23	28.1	-2.3	49	18	-5	1	26	5.05	+0.50	1.40	32.5	10	3	20	6	nw.	William H. Mitchell.	
Boonton.....	Morris.....	400	330	24.0	.....	47	14	-7	1	35	3.68	-0.68	1.32	17.6	12	19	5	5	nw.	J. W. Demmers.	
Chatham.....	Morris.....	330	18	.....	.....	.....	.....	.....	1	.....	3.87	-0.13	1.06	.....	14	10	11	8	w.	George Shields.	
Elizabeth.....	Union.....	45	41	29.0	-1.4	53	18	-3	1	28	6.01	+1.60	1.50	23.5	10	10	9	10	nw.	L. B. Bonnett.	
Flemington.....	Hunterdon.....	140	31	28.6	-1.9	51	14 <sup>†</sup>	-3	1	29	2.88	-0.63	0.70	16.0	10	14	6	9	ne.	Hiram E. Deats.	
Highwood.....	Bergen.....	90	32	27.7	-1.0	46	18	-6	1	26 <sup>†</sup>	5.31	+0.62	1.88	23.6	12	9	12	8	nw.	Charles J. Bates.	
Jersey City.....	Hudson.....	10	21	29.8	-1.4	47	14 <sup>†</sup>	-4	1	27	6.31	+2.23	2.00	23.6	11	9	12	8	nw.	S. K. Pearson, Jr.	
Kearny.....	Hudson.....	.....	.....	28.6	.....	48	3 <sup>†</sup>	6	15 <sup>†</sup>	34	5.91	.....	.....	2.35	11	.....	.....	.....	.....	Wm. J. Chandler, M. D.	
Lambertville.....	Hunterdon.....	80	33	27.1	-3.3	42	3	4	28	26	.....	.....	.....	.....	.....	10	8	11	ne.	Thomas R. Hunt.	
Little Falls.....	Passaic.....	180	117	27.9	.....	50	18	3	1	25	5.38	+0.94	2.18	24.6	14	15	5	9	w.	Montclair Water Co.	
Newark.....	Essex.....	159	78	27.6	-2.2	47	3	-2	1	36	3.89	+0.08	0.92	30.6	11	13	9	7	nw.	Prof. William Wiener.	
New Brunswick.....	Middlesex.....	110	67	28.4	-2.9	49	18	-4	1	28	3.95	+0.13	1.23	16.9	12	12	9	8	nw.	N. J. Experiment Station.	
New Milford.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2.42	.....	0.72	.....	8	.....	.....	.....	.....	Hackensack Water Co.	
North Plainfield.....	Somerset.....	110	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. D. Pearson.	
Paterson.....	Passaic.....	80	49	28.8	-1.4	52	18	-5	1	28	5.29	+0.73	2.14	23.0	12	1	3	25	nw.	Marion T. Probert.	
Plainfield.....	Union.....	100	33	27.4	-2.8	51	14	-6	1	31	4.11	+0.06	1.34	24.5	10	12	10	7	nw.	John C. Sutphen.	
Pompton Plains.....	Morris.....	195	18	.....	.....	.....	.....	.....	1	.....	4.75	+0.16	2.20	.....	9	16	1	12	nw.	M. S. Taylor.	
Ridgefield.....	Bergen.....	70	5	26.5	.....	46	18	-6	1	31	5.16	.....	2.28	22.4	11	12	7	10	nw.	George P. Kirsten.	
Somerville.....	Somerset.....	60	38	29.0	-1.0	52	18	-4	1	30	4.85	+1.17	1.70	24.5	12	15	4	10	ne.	Peter V. D. Hardcastle.	
South Orange.....	Essex.....	200	50	28.8	-0.2	47	3 <sup>†</sup>	.....	.....	26	5.70	+1.54	.....	21.0	12	.....	.....	.....	.....	Wm. H. Meeder.	
Woodcliff Lake.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hackensack Water Co.	
New York, N. Y.....		365	50	29.1	-1.6	49	3	-3	1	30	6.56	+2.69	1.90	24.2	15	6	10	13	w.	U. S. Weather Bureau.	
Means and extremes.....				28.0	-2.0	53	18	-7	1	36	4.51	+0.55	2.28	23.2	11	11	8	10	nw.		
<i>The Southern Interior.</i>																					
Bridgeton.....	Cumberland.....	30	39	31.6	-2.3	52	18	3	1	29	3.50	-0.75	0.60	15.0	10	14	1	14	nw.	Henry A. Jorden.	
Burlington.....	Burlington.....	12	34	29.4	-1.5	53	18	-1	1	28	4.25	+0.38	1.50	13.0	11	18	3	8	nw.	D. S. B. McCoy.	
Camp Dix.....	Burlington.....	.....	2	28.4	.....	50	18	0	1	26	3.83	.....	0.94	.....	12	1	6	22	nw.	U. S. Army.	
Clayton.....	Gloucester.....	126	28	29.0	-2.7	51	18	1	1	26	2.39	-1.77	0.77	14.9	9	18	4	7	nw.	Marvin Porch.	
Flammonton.....	Atlantic.....	103	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G. H. Parkhurst.	
Hightstown.....	Mercer.....	120	27	28.3 <sup>a</sup>	-1.8	50	18	-3	1	26	3.76	-0.11	0.78	16.5	12	.....	.....	.....	.....	Rev. W. A. Stanton.	
Imlaystown.....	Monmouth.....	185	31	28.6	-2.3	53	18	-2	1	29	2.96	-0.75	1.25	.....	12	15	6	8	w.	Wm. R. Hendrickson.	
Indian Mills.....	Burlington.....	76	31	29.6	-2.5	52	18	0	1	30	4.62	+0.52	1.44	13.0	12	7	11	11	nw.	James M. Armstrong.	
Lakewood.....	Ocean.....	54	17	27.8	-2.0	50	18	0	1 <sup>†</sup>	32	5.94	+1.96	1.55	19.0	13	11	3	15	nw.	R. W. Holman.	
Moorestown.....	Burlington.....	75	58	30.2	-0.8	48	18	2	1	23	2.91	-0.85	0.90	26.2	12	8	11	10	nw.	David S. Haines.	
Northfield.....	Atlantic.....	25	13	.....	.....	.....	.....	.....	.....	.....	4.33	+0.55	1.10	5.4	13	.....	.....	.....	.....	William L. Flick.	
Pleasantville.....	Atlantic.....	26	22	.....	.....	.....	.....	.....	.....	.....	4.03	+0.96	0.73	.....	14	12	3	14	.....	Lincoln Van Gilder.	
Trenton.....	Mercer.....	190	49	28.3	-2.4	51	18	-3	1	28	4.27	+0.96	2.68	9.3	13	10	5	14	nw.	U. S. Weather Bureau.	
Tuckerton.....	Ocean.....	23	27	29.8	-2.3	53	3	4	1	28	7.20	+3.27	.....	16.0	11	11	10	8	nw.	Frank R. Austin.	
Vineland.....	Cumberland.....	109	52	31.4	-1.1	54	18	3	1	26	3.74	-0.45	.....	.....	8	14	6	9	nw.	H. C. Himes.	
Woodbine.....	Cape May.....	43	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jos. H. Cohen.	
Philadelphia, Pa.....		117	50	31.4	-1.4	51	18	2	1	29	3.67	+0.19	1.64	11.7	13	7	12	10	nw.	U. S. Weather Bureau.	
Means and extremes.....				29.4	-2.0	54	18	-3	1	32	4.12	+0.30	2.68	14.8	12	12	6	11	nw.		
<i>The Sea Coast.</i>																					
Asbury Park.....	Monmouth.....	22	31	27.7 <sup>b</sup>	-4.2	41	3	5	16	28	.....	.....	.....	.....	13	7	9	9	w.	Miss Dorothy A. Alexander.	
Atlantic City.....	Atlantic.....	16	47	31.2	-1.8	47	15	7	1	30	5.54	+2.16	1.78	5.1	18	11	7	11	nw.	U. S. Weather Bureau.	
Cape May City.....	Cape May.....	17	36	31.8	-2.4	45	15	7	1	26	4.89	+1.50	1.49	5.2	13	10	8	11	nw.	U. S. Weather Bureau.	
Long Branch.....	Monmouth.....	25	13	27.3	-4.6	41	18	2	1	24	4.62	+0.70	0.87	19.0	14	11	6	12	nw.	William D. Martin, Jr.	
Sandy Hook.....	Monmouth.....	22	22	27.6	-3.1	45	18	1	1	24	3.88	+0.18	1.17	21.1	15	8	10	11	nw.	U. S. Weather Bureau.	
Means and extremes.....				29.1	-3.2	47	15	1	1	30	4.73	+1.14	1.78	12.6	15	11	8	11	nw.		
For the State.....				27.9	-2.1	54	18	-25	1	40	4.20	+0.26	2.68	20.0	11	11	8	10	nw.		

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Hackensack; Ridgefield is Morseineere.



## Daily precipitation for February, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>The Highlands and Kittatinny Valley.</i>																																		
Belvidere.....	Delaware.....				*	1.35	.85				.18			.26		.55							.31		.27								3.77	
Charlotteburg.....	Passaic.....	T.				2.15	.10				.20			.22		.40				.12		.35		T.		.22							3.54	
Culvers Lake.....	Delaware.....		T.			2.90	.33	.04			.20			.20		.29				.05		.01	.18	T.		.02	T.			.01	T.		2.67	
Dover.....	Passaic.....				*	1.70	.10				.20			.25		.05				.10		.35		.05									2.80	
Layton.....	Delaware.....				.12	2.15	.62	T.			.20			.28		.37				.02		.02		.05	T.	.15	T.			.02	T.		4.00	
Newton.....	Delaware.....	T.			.32	1.33	.51				.17			.28		.17				.10		.05	.11	T.	.05	T.			T.	T.			3.09	
Phillipsburg.....	do.....	T.			1.05	1.35	.59				.16		.01	.32	.02	.38				T.	T.		.26	.07	.12	.06			T.	T.			4.39	
Sussex.....	Hudson.....				*	1.22	.51	T.			.19			T.		.22				.13				.19	.13				T.				2.59	
<i>The Red Sand-stone Plain.</i>																																		
Bergen Point.....	Coast.....	T.			.78	1.40	.78	.18			.18			.34		.75				.05		.15	.44	T.		T.							5.08	
Bonton    .....	Passaic.....		T.			25	1.32	.64	.07		.20	.05		.13	.09	.30	T.			.06	T.		.47		.10	T.				T.			3.68	
Chatham    .....	do.....			.11	1.06	.88	.38			.12	.18		.04	.22	.46					.18		.02		.16	.02								3.87	
Elizabeth.....	Coast.....	T.			.12	.25	3.55				.31			.31		.54				.08			.59		.21	.05			T.				6.01	
Flemington.....	Raritan.....				.40	.70	.30				.23			.36		.24				.06		.05	.43	T.	.11				T.				2.88	
Hightwood.....	Hackensack.....	T.			.75	1.88	.76	.18			.15			.37		.53				.07		.10	.39	T.	.10	.03							5.31	
Jersey City**.....	Coast.....				.98	2.00	.90	.25			.20			.43		.60				.11			.65	T.	.10	.09			T.				6.31	
Kearny.....	Coast.....	T.	.01	.18	*	*	*	4.00			.35		T.		.30		.45					.25	.37										5.91	
Lambertville.....	Delaware.....		T.		*	*	*	2.32			.2			.32		.13				T.		.39		.43						T.			\$	
Little Falls.     .....	Passaic.....		.03		.34	2.18	.84	.17			.12	.03		.11	.05	.85				.03	.03	.01		.60		T.	.02			T.			5.38	
Newark**.....	Coast.....	T.			.92	.91	.38				.18		T.	.15	.25	.45	T.			.05		.45		.12	T.	.03	.03			T.			3.89	
New Brunswick.....	Raritan.....				.33	1.23	.55	.19			.18			.47		.33				.07		.09	.42	T.	.08	.01				T.			3.95	
New Milford.....	Hackensack.....						.12	.72			.22			.33		.60							.37		.05	.01							2.42	
Paterson.....	Passaic.....	T.			.77	2.14	.77	.04			.22			.25	.20	.50				.05		.07	.43		.08	.02			T.				5.29	
Plainfield.....	Raritan.....	T.			.67	1.34	.50	.13			.33		T.	.25		.15				T.		.37	.22	T.	.15	T.			T.				4.11	
Pompton Plains   .....	Passaic.....				.31	2.20	.89	.26			.17	.05		.22	.13					T.	T.		.52		T.								4.75	
Ridgefield.....	Hackensack.....	T.			.68	1.60	.70	.23			.13		T.	.38		.66				.08			.56	T.	.08	.04			T.				5.16	
Somerville.....	Raritan.....	T.			.80	1.70	.75	.10			.20			.45		.15				.12		.10	.35		T	.10					.03		4.85	
South Orange.....	Rahway.....				*	*	*	3.90			.33		T.	.30		.42				.05		.24	.36	.03	.05	.02							5.70	
Woodcliff Lake.....	Hackensack.....							.60								.55																	\$	
New York, N. Y***	Coast.....	T.			.01	1.58	1.38	1.47	.02		.09		T.	.35	.11	.79				T.		.07	.46	.07	.05	.05	.06			T.	T.			6.56
<i>The Southern Interior.</i>																																		
Bridgeport.....	Coast.....				.50	.50	.60				.30			.55	.30							.30		.05	.15					.25			3.50	
Burlington.....	Delaware.....	T.			.82	1.50	.42	.12			.18		T.	.43		.23				T.		*	.40		.10					.05			4.25	
Camp Dix.....	Delaware.....		T.		.78	.94	.60	.53			.11			.30		T.				T.		.12	.09	.14	.08	.04				.10			3.83	
Clayton.....	Maurice.....				*	.77	.47				.16			.34		.16				T.		.29		T.	.05			.02		.13			2.39	
Hammonton.....	Mullica.....				*	.84	.31				.22																						\$	
Hightstown.....	Raritan.....				.60	.61	.78	.21			.11			.24		.35				.47		.04	.25		.07	T.				.03			3.76	
Imlaystown.....	Delaware.....				.40	1.25	.72	.08			.20			.63	.04	.04				.02		.02	.10		.05					.05			2.96	
Indian Mills.....	Mullica.....				.38	.62	1.44	.18			.24			.60		.48				.06		T.	.30	T.	.06	.04				.22			4.62	
Lakewood.....	Metedeconk.....	T.			.72	1.55	.78	.29			.23			.53		.73				.13		.10	.54		.04	.15				.15			5.94	
Moorestown.....	Delaware.....				.53	.90	.35	.10			.18			.12		.33				T.		.92	.06	.26	.03	T.				.03			2.91	
Northfield.....	Coast.....		.01		.54	1.10	.36	.05			.29			.89		.33				.15			.47		.05	.07				.02			4.33	
Pleasantville.....	Coast.....		.07		.69	.58	.11	.37			.26			.73		.45				.14		.13	.34	.01	.05	.10				T.			4.03	
Trenton***.....	Delaware.....	T.			1.63	1.52	.45	T.			.06		.01	.15	.05	.14				T.		.03	.45	.15	.03	.02	T.			T.		.03		4.27
Tuckerton.....	Coast.....	.05			*	*	3.75				.07			1.05		.68				.50		.02	.47		.25				.36				7.20	
Vineland.....	Maurice.....				*	*	*			2.12				.54		.40							.56		.12								3.74	
Woodbine.....	Coast.....																																	
Philadelphia, Pa..	Delaware.....	T.		T.	1.34	.66	.50				.19			.01	.39	.05	.04			T.	T.		.30	.05	.06	.04				.04			3.67	
<i>The Sea Coast.</i>																																		
Asbury Park.....	Coast.....				.01	1.05	1.31	.24	.05		.29		T.	1.02	.23	T	.40			.17		.28	.22	.03	.09	.08				.04			5.54	
Atlantic City***.....	do.....		.02		.01	1.49	.72	.31	.02	T.	.32			1.00		T				.35		.14	.28		.02	.21				.02			4.89	
Cape May City.....	do.....	T.				.65	.87	.03			.26			.49	.69	.40				.02		.39	.57	.07	.03					.05			4.62	
Long Branch**.....	do.....		.10			.97	.43	.27	.01		.20			.38	.19	.59				.16		.36	.12	.02	.14					.02			3.88	
Sandy Hook***.....	do.....	T.																																

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.

|| Precipitation measured in the morning; amount then recorded is for the preceeding 24 hours.      § Incomplete or missing.

\* Precipitation included in the next following measurement.      \*\* Precipitation for 24-hour period from midnight to midnight.

### MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.			Moisture.		Sun- shine	
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine
							Miles per hour.	Direction.	Date.			
Atlantic City.....	30.01	30.92	1	29.44	6	10	35	ne.	5	79	77	47
Cape May City.....	30.04	30.93	1	29.50	6	12	50	e.	4	81	83	40
Long Branch.....	.....	.....	.....	.....	.....	.....	75	nw.	15	.....	.....	.....
Newark.....	.....	.....	.....	.....	.....	.....	30	ne.	4	70*	64†	56
New York, N. Y.....	29.99	31.00	1	29.36	25	22	65	nw.	15	74	65	52
Philadelphia, Pa.....	30.03	30.99	1	29.47	7	11	33	nw.	25	74	68	48
Ridgefield.....	29.99	31.00	1	29.35	25	.....	.....	.....	.....	.....	.....	.....
Sandy Hook.....	29.99	31.00	1	29.36	15	20	56	ne.	5	85	81	62
Trenton.....	30.00	30.96	1	29.43	25	14	48	ne. s	4s	80	71	50

### § Two directions and dates

\* 7 a. m.      † 9 p. m.



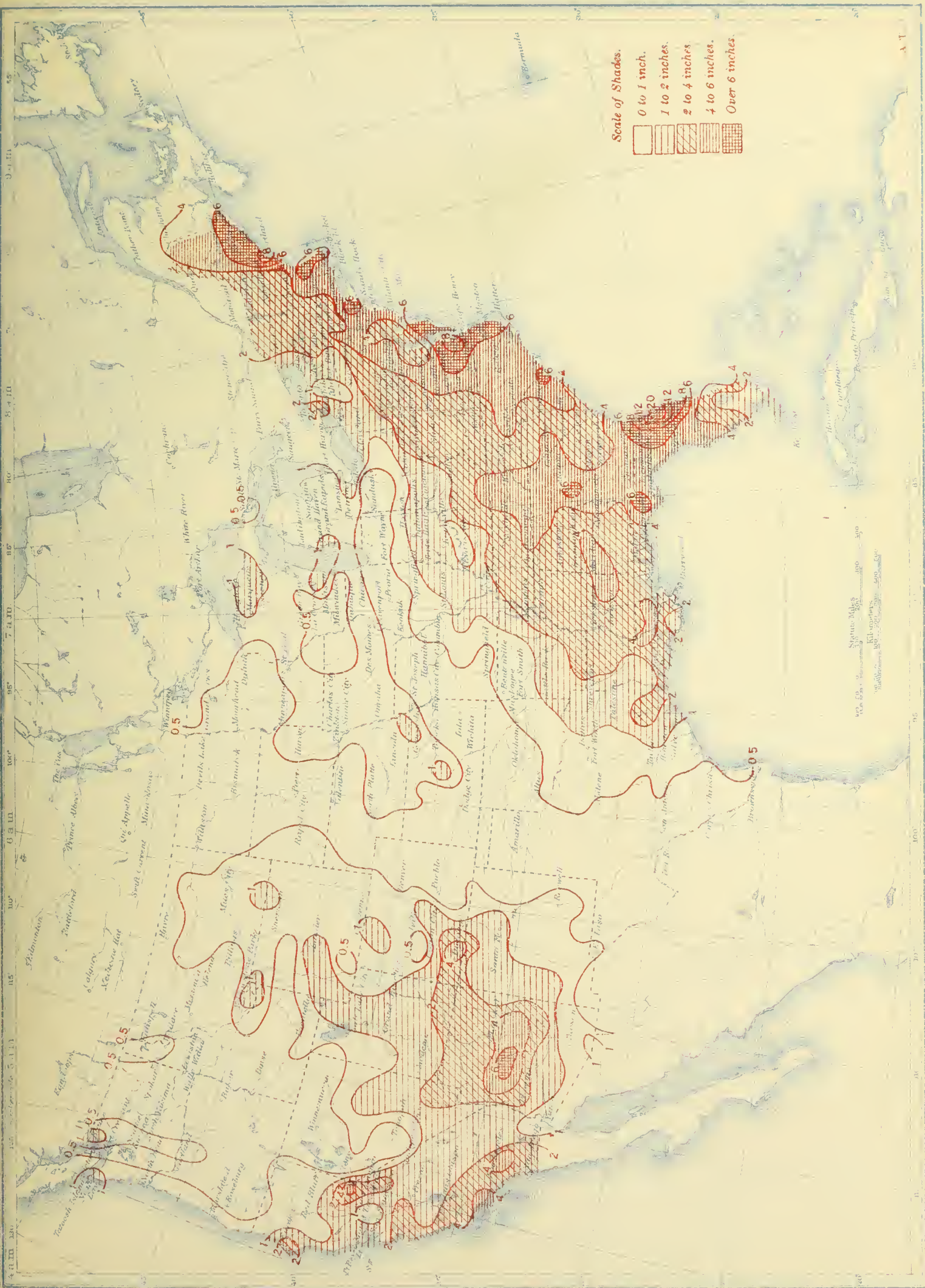
Daily temperatures for January, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
The Highlands and Kittatinny Valley																																	
Belvidere	Maximum	16	35	40	23	27	36	41	37	37	41	42	42	39	48	40	19	35	50	40	34	34	46	36	35	35	25	22	22	29	38	35.3	
	Minimum	-10	11	27	18	18	24	26	27	21	24	22	20	26	14	16	5	7	21	22	10	34	32	38	37	35	31	27	25	30	20	34	16.7
Charlotteburg	Maximum	17	37	36	33	30	31	30	28	29	38	38	38	34	42	40	31	45	43	35	35	32	38	37	35	31	27	25	30	20	30	15.2	
	Minimum	-12	13	31	21	18	20	23	25	19	13	15	12	26	15	16	1	4	26	19	11	31	30	30	30	29	21	16	28	14	34	33.2	
Dover	Maximum	17	40	46	37	26	32	35	33	33	38	39	38	39	45	35	18	32	47	38	32	34	26	23	27	19	7	2	2	19	16.1		
	Minimum	-7	16	21	20	21	24	25	21	19	19	12	18	28	16	10	1	8	27	14	13	9	29	43	35	38	30	22	16	25	34	32.8	
Layton	Maximum	15	40	35	33	25	33	34	33	35	40	36	36	38	43	40	18	30	44	40	32	38	32	35	38	30	22	16	25	34	34	13.0	
	Minimum	-10	10	22	20	18	24	24	25	18	14	14	10	26	10	13	1	-4	20	18	11	10	3	22	15	25	30	22	16	25	34	31.4	
Newton	Maximum	7	33	41	32	22	31	32	33	33	37	36	35	38	42	40	15	30	44	40	30	28	33	35	38	30	22	16	25	34	30	14.4	
	Minimum	-15	6	27	18	18	21	24	23	21	19	24	19	20	12	0	3	26	17	10	22	19	19	16	7	2	6	20	30	35	34	34.4	
Phillipsburg	Maximum	16	38	40	32	28	35	39	34	35	42	41	42	37	49	37	19	37	50	39	33	31	43	32	33	32	24	21	30	35	34	17.6	
	Minimum	-11	13	29	18	18	27	26	24	21	24	24	22	38	20	9	5	9	28	16	12	13	26	23	26	19	9	1	9	19	32.4		
Sussex	Maximum	26	36	38	34	24	34	35	33	34	42	41	34	38	47	48	3	32	47	38	35	35	39	30	30	39	22	18	0	3	11	13.8	
	Minimum	-14	7	25	19	14	23	25	21	15	15	22	12	22	9	15	3	7	20	20	12	2	20	23	25	15	10	0	3	11	11	13.8	
The Red Sandstone Plain.																																	
Bergen Point	Maximum	20	39	43	38	38	36	39	38	36	38	43	41	39	48	39	20	37	49	42	34	34	41	36	41	34	26	20	31	36	36.4		
	Minimum	-5	19	31	21	21	21	23	25	20	25	25	24	29	25	15	7	11	26	20	14	17	20	27	31	24	15	17	11	27	38	19.8	
Boontonfss	Maximum	23	32	44	26	32	33	36	34	34	39	40	40	39	47	28	20	34	46	29	34	34	41	34	39	31	22	12	3	-2	8	33.5	
	Minimum	-7	-3	22	22	15	23	26	26	21	17	17	17	19	16	18	5	4	11	26	14	8	13	22	25	22	12	3	8	8	20	14.6	
Elizabeth	Maximum	20	39	42	40	27	35	41	40	38	40	44	43	41	50	41	20	38	53	39	35	34	41	36	44	39	30	22	32	37	37	37.3	
	Minimum	-3	18	32	24	24	24	28	18	22	21	22	21	23	19	7	10	29	27	11	16	28	28	32	32	24	15	6	6	26	20	20.6	
Flemington	Maximum	19	35	43	40	30	34	41	37	39	44	45	40	38	51	41	22	36	51	39	38	31	45	40	40	33	27	24	30	34	34	36.8	
	Minimum	-3	20	32	22	22	27	28	29	29	23	23	22	27	22	19	7	9	24	20	13	13	26	27	31	23	14	6	8	26	20	20.4	
Highwood	Maximum	20	39	41	37	27	34	38	35	34	38	39	40	38	44	38	21	35	46	38	34	32	40	33	41	36	25	18	30	37	37	37.2	
	Minimum	-6	15	33	23	23	22	27	25	12	12	18	20	30	20	15	7	9	26	20	12	8	27	26	31	24	14	5	4	23	20	18.2	
Jersey City	Maximum	23	38	44	41	29	35	38	39	35	38	42	41	39	47	41	24	37	47	42	34	35	41	37	41	34	31	23	30	36	36	36.6	
	Minimum	-4	18	33	24	24	26	29	29	23	26	28	27	32	28	22	9	14	32	24	17	20	30	29	32	25	16	7	14	29	22.9		
Kearny	Maximum	26	36	48	36	29	32	36	34	35	38	38	38	38	46	40	20	36	48	40	33	33	43	33	41	33	22	20	31	36	36	35.1	
	Minimum	20	24	26	24	25	26	28	23	25	28	30	30	28	25	6	11	11	25	15	17	20	28	28	32	25	10	6	12	29	22	22.0	
Lambertville	Maximum	20	35	42	...	28	31	35	34	30	39	39	41	39	43	41	28	35	45	41	29	30	37	36	38	33	26	21	30	32	34	34.2	
	Minimum	5	17	30	21	21	25	26	27	21	22	20	20	30	23	20	6	11	29	23	12	21	26	27	30	21	13	5	4	26	20	20.0	
Little Falls	Maximum	28	40	45	29	43	36	37	36	36	40	40	40	41	45	28	22	37	50	34	35	34	43	36	45	33	23	20	32	38	38	35.7	
	Minimum	3	27	26	22	25	29	30	18	22	23	23	28	22	27	9	10	18	28	17	14	20	28	28	26	16	6	8	17	14	20	20.1	
Newark	Maximum	19	40	47	28	27	46	36	34	32	39	40	37	42	42	29	19	34	46	31	30	30	40	40	34	40	23	20	32	35	35	33.9	
	Minimum	-2	19	36	24	26	27	28	24	21	23	30	24	27	28	9	8	13	27	20	16	22	25	29	28	24	12	6	20	25	21	21.3	
New Brunswick	Maximum	19	42	43	43	27	32	36	36	34	40	40	38	39	48	42	19	36	49	47	31	34	39	37	39	34	29	22	32	35	35	35.9	
	Minimum	-4	19	22	22	21	25	27	29	22	23	27	22	31	27	18	7	11	31	25	14	18	26	29	31	24	15	6	9	29	20	20.9	
Paterson	Maximum	19	43	45	40	27	35	40	40	38	39	43	40	44	48	37	37	37	52	38	35	33	45	32	44	36	27	22	30	37	37	37.3	
	Minimum	-5	17	33	22	22	25	29	29	21	22	22	24	30	23	12	9	10	37	22	16	18	22	22	32	25	16	5	10	23	20	20.2	
Plainfield	Maximum	19	38	45	37	28	33	40	38	35	39	43	42	41	51	38	20	37	50	37	33	34	42	33	43	34	26	21	31	35	36	36.0	
	Minimum	-6	17	32	21	22	25	28	24	20	20	19	30	20	16	7	8	24	20	10	11	28	27	31	22	14	5	4	24	24	18.7		
Ridgefield	Maximum	25	32	43	33	28	32	36	35	33	38	39	38	36	44	36	20	35	46	36	33	31	40	31	40	32	22	17	30	35	35	33.8	
	Minimum	-6	17	33	23	23	24	27	23	17	23	23	22	29	25	12	7	10	30	17	14	13	28	27	30	20	9	5	8	24	19	19.2	
Somerville	Maximum	22	36	41	42	30	35	42	40	40	40	46	42	40	50	44	23	40	52	46	36	34	44	41	44	35	30	24	24	33	37	38.2	
	Minimum	-4	18	31	22	22	25	26	28	22	22	20	20	30	22	18	7	10	26	24	14	14	26	27	32	23	14	6	9	25	19	19.9	
South Orange	Maximum	25	35	47	31	28	27	33	36	34	33	38	38	39	36	44	38	19	35	47	39	33	33	42	33	41	33	24	18	30	36	36.9	
	Minimum	22	32	44	21	22	25	28	25	21	23	25	24	29	24	13	7	9	27	16	15	17	28	27	31	22	12	5	9	25	20	20.6	
New York, N. Y.	Maximum	27	37	49	27	29	33	38	35	35	39	40	40	39	44	41	22	37	49	41	33	35	40	36	42	34	26	20	32	36	36	36.1	
	Minimum	-3	20	32	34	25	25	30	25	23	27	30	32	30	30	12	7	15	34	18	17	23	30	29	28	22	11	6	14	25	22	22.1	
The Southern Interior.																																	
Bridgeton	Maximum	32	42	50	45	32	36	45	38	40	45	47	50	42	50	40	25	40	52	40	37	37	39	35	40	33	33	27	34	33	...	39.3	
	Minimum	3	24	27	28	28	28	28	25	25	29	25	28	32	27	22	10	16	28	27	17	22	32	35	32	27	19	10	11	28	...	23.9	
Burlington	Maximum	23	...	43	41	30	33	39	36	34	42	43	44	39	48	43	22	38	53	45	34	33	39	40	42	33	29	10	33	35	37	...	37.2
	Minimum	-1	20	31	24	25	21	27	28	24	25	24	23	32	25	21	9	13	25	23	15	13	29	30	32	22	16	8	13	29	...	21.6	
Camp Dix	Maximum	26	42	42	42	34																											

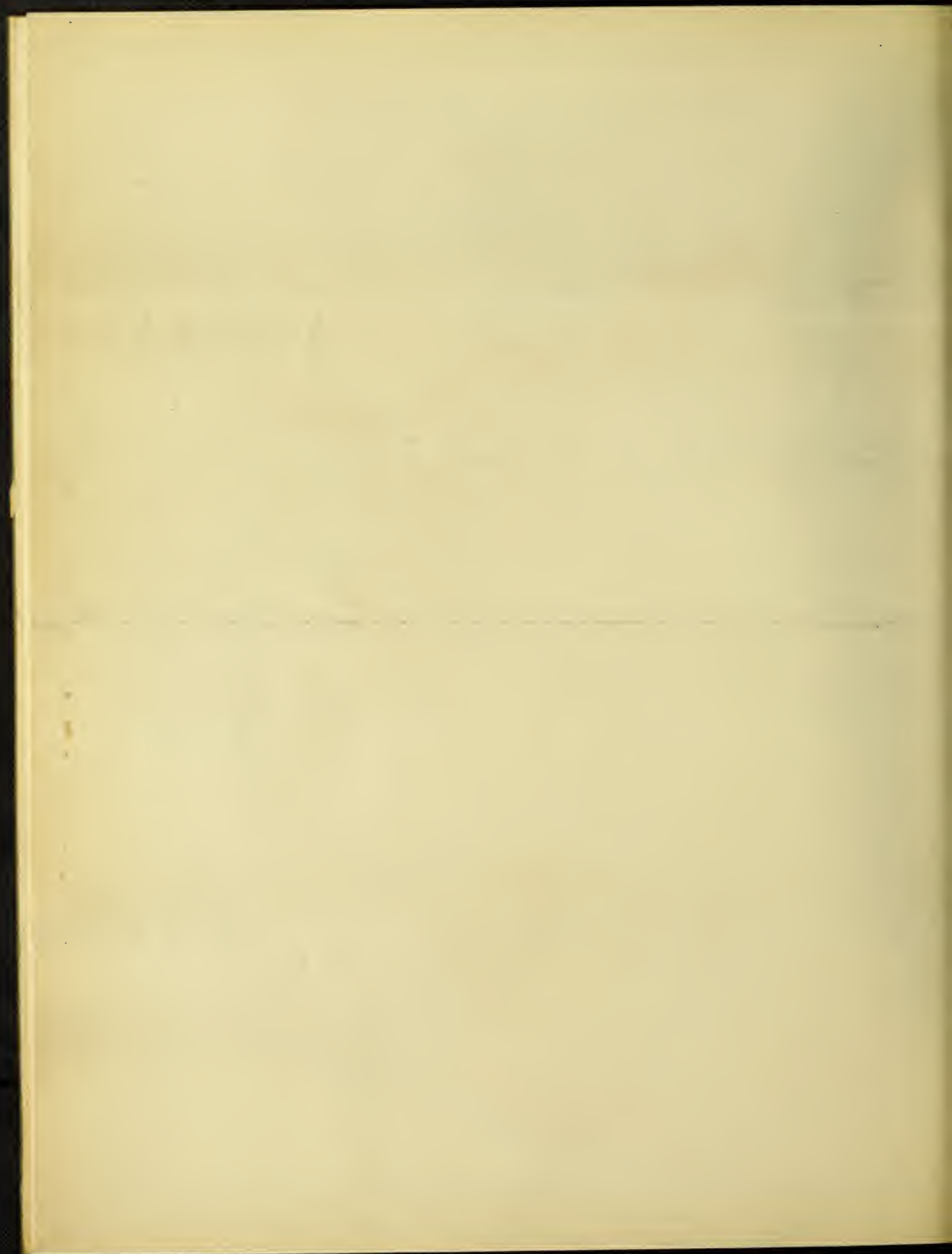
\* , b , c , etc., indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged









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U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

# CLIMATOLOGICAL DATA

NEW JERSEY SECTION

MARCH, 1920.

BY

G. HAROLD NOYES

METEOROLOGIST



TRENTON, N. J.  
WEATHER BUREAU OFFICE  
MAY 21, 1920.



Departure of the Mean Temperature from the Normal, March, 1920.





U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., MARCH, 1920. No. 3.

GENERAL SUMMARY.

The month of March brought forth typical weather conditions, for the opening of the spring season in New Jersey. Rain, snow, temperature, wind and cloudiness did not vary greatly from normal. The contrast with March 1919, was marked, owing chiefly to the mildness of the weather then. The first and third weeks were mostly subnormal in warmth, while the remaining periods were generally warmer than normal, the month closing with a notably pleasant warm wave. March gales were hardly more noticeable than normal, but, as usual, they accompanied falls of snow or rain. Highway traffic continued to be greatly impeded, particularly in northern districts, by the snow and ice remaining, and by the fall of sleet on the 6th, but road conditions steadily improved after the 21st. The ice in the Delaware, which was some 18 inches thick, more or less, went out of the lower river on the 4th, and navigation in tide-water was resumed on the 10th. On the night of the 13th-14th, the ice in the upper river, above Phillipsburg, broke and commenced running with great volume, velocity and in cakes of great weight. The situation was very dangerous, but no jam occurred, and there was only such minor damage as caused by the scouring and grinding of ice cakes.

The display of the Aurora Borealis on the evening of the 22d, was one of the most brilliant occurrences observed in this latitude, and at about 10 p. m., telegraph communications was almost totally interrupted by the electrical interference.

TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 41 stations was 39.4°, which was 1.4° above the normal. The highest temperature was 79° at Flemington on the 31st, and the lowest, -8° at Layton on the 8th. The highest monthly mean temperature was 43.2° at Bridgeton, and the lowest, 34.6° at Layton. The greatest daily range of temperature was 48° at Belvidere on the 25th. The temperature departure from normal for the year 1920 to date, by sections, is: The Highlands, -2.8°; Red Sandstone Plain, -2.2°; Southern Interior, -2.0°; Sea Coast, -2.4°.

PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations was 3.80 inches, which was 0.24 inch below the normal. The mean total snowfall was 5.6 inches, which was 0.3 inch less than the normal. The greatest monthly precipitation was 5.36 inches at Dover, and the least, 2.29 inches at Asbury Park. The greatest amount of precipitation in any 24 consecutive hours was 3.43 inches at Charlotteburg on the 5th. The mean number of days on which 0.01 inch or more precipitation occurred was 10, which was 1 less than the normal. The precipitation accumulated departure from the normal for the year 1920 to date, by sections, is: The Highlands, -1.94 inches; Red Sandstone Plain, -0.43 inch; Southern Interior, -1.07 inches; Sea Coast, -1.37 inches.

WIND.

The prevailing wind direction was from the northwest, with

an approximate velocity of 13 miles per hour, which was somewhat greater than the normal. The highest wind velocity, sustained for 5 consecutive minutes, was 74 miles per hour from the northwest on the 17th at Long Branch. High winds were also reported on the 5th, 6th, 12th, and 13th.

SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 17, which was 3 more than the normal; partly cloudy, 5, which was 3 less than the normal; cloudy, 9, which was normal. The mean percent of possible sunshine approximated 66, and was 7% above the normal.

MISCELLANEOUS.

The mean daily stage of the Delaware River at Phillipsburg was 8.1 feet, the highest being 16.4 feet on the 1st. At Trenton the mean daily stage was 5.7 feet, which was 1.8 feet above the normal; the highest stage was 11.1 feet on the 14th.

The mean atmospheric pressure, reduced to sea level, was 30.03 inches, which was 0.02 inch above the normal. The highest reading, 30.55 inches, occurred at Sandy Hook on the 3d, and the lowest, 29.05 inches, on the 13th, also at Sandy Hook. Dense fog was reported on the 4th, 5th, 6th, 11th, 12th, 13th, 16th, 24th, 26th, 27th and 29th; and haze on the 2d, 3d, 11th and 31st. Sleet occurred on the 4th, 5th, 6th, 13th and 19th; and hail on the 13th and 29th. The aurora was observed on the 22d, 23d, 24th and 25th. Solar halos were observed on the 8th, 14th, 15th, 16th, 22d and 28th; and lunar halos on the 30th and 31st. Thunderstorms occurred on the 5th, 26th, 29th and 30th.

COMPARATIVE DATA FOR MARCH.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	39.4	66	2	1.10	2.29	0.23	.....	.....	.....	.....
1886.....	37.7	70	9	3.70	5.27	2.59	.....	.....	.....	.....
1887.....	37.7	61	8	3.34	5.45	2.19	.....	.....	13	10
1888.....	32.8	72	0	5.71	8.22	3.75	.....	.....	12	11
1889.....	40.5	67	19	3.79	6.49	1.98	.....	.....	13	8
1890.....	37.6	78	0	6.08	7.92	4.14	.....	.....	13	14
1891.....	37.2	68	4	5.06	8.02	2.05	8	10	13	12
1892.....	34.4	64	6	4.75	7.21	3.11	10	12	9	9
1893.....	37.0	68	6	3.73	6.26	2.36	10	10	11	10
1894.....	44.2	83	12	1.77	2.65	1.09	12	11	8	10
1895.....	36.7	72	7	3.16	4.66	1.77	12	8	11	10
1896.....	34.0	69	-8	5.34	7.38	3.14	13	8	10	11
1897.....	40.0	77	18	2.78	4.32	1.55	11	9	11	10
1898.....	45.1	77	16	3.33	4.25	2.56	9	10	12	12
1899.....	38.6	73	13	6.54	9.58	3.45	7	10	14	13
1900.....	35.6	67	-9	3.51	4.96	2.48	12	12	7	10
1901.....	39.2	75	-8	4.64	8.07	2.40	9	10	12	12
1902.....	43.9	77	0	4.34	7.20	3.16	12	10	9	11
1903.....	47.6	79	13	5.13	8.53	3.60	11	8	12	10
1904.....	37.2	72	1	3.43	4.76	2.02	11	8	12	13
1905.....	39.8	87	-7	3.95	5.06	2.80	14	8	9	12
1906.....	34.4	62	-15	5.09	6.77	2.91	10	9	12	11
1907.....	41.2	88	-11	3.04	4.38	1.81	13	10	8	10
1908.....	41.8	89	7	2.80	4.92	1.06	11	9	11	12
1909.....	38.3	74	-6	3.48	4.66	2.31	12	10	9	13
1910.....	44.5	88	10	1.22	2.36	0.29	14	10	7	6
1911.....	37.6	76	3	3.38	4.50	2.64	10	12	9	11
1912.....	36.9	72	3	7.61	9.61	5.95	9	11	11	14
1913.....	44.8	79	-1	5.15	7.73	2.47	10	9	12	12
1914.....	35.4	75	-6	3.65	6.45	2.02	13	10	8	10
1915.....	36.1	63	6	1.13	1.65	0.58	20	7	4	3
1916.....	31.7	71	-9	3.48	4.96	2.38	13	8	10	12
1917.....	38.2	72	0	4.65	7.14	2.28	12	8	11	13
1918.....	41.8	82	0	2.06	3.76	0.99	17	7	7	9
1919.....	43.2	77	12	5.32	7.40	3.77	14	7	10	13
1920.....	39.4	79	-8	3.80	5.36	2.29	17	5	9	10



## Climatological data for March, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation of in. or more.	Clear.	Pt. cloudy.	Cloudy.		
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere.....	Warren.....	289	29	37.8	+1.0	75	25	7	1	48	3.64	-0.40	1.00	5.2	10	21	1	9	.....	Samuel J. Hixson.
Charlotteburg.....	Passaic.....	719	28	35.4 <sup>a</sup>	+0.7	66	28	-1	8	44	4.87	+0.93	3.43	.....	5	20	4	7	sw.	George S. Briggs.
Culvers Lake <sup>††</sup> .....	Sussex.....	848	19	.....	.....	.....	.....	-5	8	.....	3.56	+0.13	1.05	10.5	11	16	6	9	se.	Brice E. Riker.
Dover.....	Morris.....	600	36	36.6	+1.7	71	25	6	8	46	5.36	+1.46	2.70	9.5	11	11	9	11	.....	William C. Harris.
Layton.....	Sussex.....	480	20	34.6	+0.4	72	31	-8	8	42	2.35	-1.32	0.86	5.0	11	15	6	10	sw.	A. M. Depue.
Newton.....	Sussex.....	769	39	36.1	+0.3	69	31	6	8	34	3.38	-0.22	1.51	8.8	9	17	2	12	sw.	Irving G. Kern.
Phillipsburg.....	Warren.....	363	38	38.0	+0.1	72	25 <sup>†</sup>	10	1 <sup>†</sup>	42	3.39	-0.26	1.43	8.7	10	18	4	9	sw.	D. Wilson Smith.
Sussex.....	Sussex.....	442	29	36.1 <sup>a</sup>	-0.3	72	31	0	8	47	3.26	-0.41	1.00	.....	10	15	5	11	nw.	Rev. W. August George.
Means and extremes.....				36.4	+0.6	75	25	-8	8	48	3.73	-0.01	3.43	8.0	10	17	4	10	sw.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point <sup>††</sup> .....	Hudson.....	37	23	39.7	+1.9	73	31	11	7 <sup>†</sup>	38	3.06	-1.16	1.25	.....	7	9	17	5	nw.	William H. Mitchell.
Boonton.....	Morris.....	400	30	35.9	.....	70	25	4	8	45	4.39	+0.65	2.27	3.4	7	24	2	5	sw.	J. W. Demmers.
Chatham.....	Morris.....	330	18	.....	.....	.....	.....	.....	.....	.....	4.49	+0.62	2.34	.....	8	19	3	9	.....	George Shields.
Elizabeth.....	Union.....	45	41	39.8	+1.4	73	25	8	8	44	4.96	+0.70	2.70	6.0	10	18	5	8	nw.	L. B. Bonnett.
Flemington.....	Hunterdon.....	140	31	40.0	+2.5	79	31	12	7 <sup>†</sup>	44	3.47	-0.14	0.94	3.6	11	20	2	9	sw.	Hiram E. Deats.
Highwood.....	Bergen.....	90	32	37.2	+1.0	71	31	5	8	41	3.63	-0.52	1.87	7.0	9	16	4	11	nw.	Charles J. Bates.
Jersey City.....	Hudson.....	10	21	41.5	+3.2	73	31	13	7	36	4.79	+0.69	2.40	6.8	10	14	8	9	nw.	S. K. Pearson, Jr.
Kearny.....	Hudson.....	.....	.....	41.2	.....	76	31	12	7	41	5.30	.....	2.33	7.0	8	10	13	8	nw.	Wm. J. Chandler, M. D.
Lambertville.....	Hunterdon.....	80	33	38.0	-1.0	69	31	10	8	34	.....	+0.59	2.33	9.1	9	20	1	10	w.	Thomas R. Hunt.
Little Falls.....	Passaic.....	180	17	39.7	.....	73	31	10	7	38	4.58	+0.52	1.16	14.5	8	16	6	9	nw.	Montclair Water Co.
Newark.....	Essex.....	159	78	38.9 <sup>a</sup>	+1.4	67 <sup>b</sup>	24	15	1	31	3.95	+0.02	1.16	14.5	8	16	6	9	nw.	Prof. William Wiener.
New Brunswick.....	Middlesex.....	110	67	40.9	+2.7	73	25	12	17	34	3.56	-0.35	1.17	5.2	10	19	4	8	nw.	N. J. Experiment Station.
New Milford.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3.66	-0.57	1.20	7.0	11	9	2	20	nw.	Hackensack Water Co.
Paterson.....	Passaic.....	80	49	40.3	+1.8	75	25	9	8	45	4.39	+0.58	1.53	6.3	12	18	6	7	w.	Marion T. Probert.
Plainfield.....	Union.....	100	33	38.6	+2.0	73	31	10	7 <sup>†</sup>	42	4.79	+0.75	2.54	.....	8	.....	.....	.....	.....	John C. Sutphen.
Pompton Plains.....	Morris.....	195	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. S. Taylor
Ridgefield.....	Bergen.....	70	5	37.4	.....	71	25 <sup>†</sup>	9	8	44	4.32	.....	2.17	8.0	12	16	4	11	nw.	George P. Kirsten.
Somerville.....	Somerset.....	60	38	39.8	+2.9	75	25	12	1 <sup>†</sup>	46	3.95	0.00	1.15	5.0	10	20	4	7	w.	Peter V. D. Hardcastle.
South Orange.....	Essex.....	200	50	37.6	+0.8	70	31	10	8	33	4.78	+0.97	2.26	6.5	9	17	6	8	w.	Wm. H. Meeder.
Woodcliff Lake.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	4.16	+0.06	2.20	5.7	9	12	9	10	nw.	Hackensack Water Co.
New York, N. Y.....		365	50	40.6	+3.1	69	31	12	7	30	4.16	+0.06	2.20	5.7	9	12	9	10	nw.	U. S. Weather Bureau.
Means and extremes.....				39.1	+1.8	79	31	4	8	46	4.25	+0.19	2.70	6.8	10	16	6	9	nw.	
<i>The Southern Interior.</i>																				
Bridgeton.....	Cumberland.....	30	39	43.2	+2.1	76	31	11	1	37	3.68	-0.79	1.85	7.0	6	20	2	9	sw.	Henry A. Jorden.
Burlington.....	Burlington.....	12	34	42.4	+2.5	74	25 <sup>†</sup>	13	1 <sup>†</sup>	41	3.56	-0.52	0.95	7.9	12	23	2	6	nw.	D. S. B. McCoy.
Camp Dix.....	Burlington.....	.....	2	40.6	.....	72	31	9	8	43	2.93	.....	0.86	.....	12	8	6	17	sw.	U. S. Army.
Clayton.....	Gloucester.....	126	28	42.0	+2.2	71	25 <sup>†</sup>	11	2	39	2.82	-1.18	0.77	1.9	9	24	2	5	s.	Marvin Porch.
Hammonton.....	Atlantic.....	103	18	.....	.....	.....	.....	.....	.....	.....	.....	-0.22	1.33	5.1	11	19	5	7	nw.	G. H. Parkhurst.
Hightstown.....	Mercer.....	120	27	40.8	+1.8	72	25 <sup>†</sup>	10	8	41	4.14	.....	.....	.....	.....	22	4	5	sw.	Rev. W. A. Stanton.
Imlaystown.....	Monmouth.....	185	31	40.1	+0.5	72	31	8	8	41	.....	+0.02	1.45	5.5	9	14	9	8	nw.	Wm. R. Hendrickson.
Indian Mills.....	Burlington.....	76	31	41.2	+1.4	74	31	4	8	42	4.12	+0.02	.....	.....	.....	.....	.....	.....	.....	James M. Armstrong.
Lakewood.....	Ocean.....	54	17	39.6	-0.4	71	31	5	8	37	4.59	+0.16	1.20	4.0	12	17	2	12	w.	R. W. Holman.
Moorestown.....	Burlington.....	75	58	43.1	+4.3	68	25 <sup>†</sup>	13	7	30	2.85	-0.96	0.94	.....	8	18	4	9	nw.	David S. Haines.
Northfield.....	Atlantic.....	25	13	.....	.....	.....	.....	.....	.....	.....	2.95	-1.05	0.86	2.7	10	.....	.....	.....	.....	William L. Flick.
Pleasantville.....	Atlantic.....	26	22	.....	.....	.....	.....	.....	.....	.....	3.05	-0.85	0.97	.....	9	21	1	9	.....	Lincoln Van Gilder.
Trenton.....	Mercer.....	190	49	40.4	+1.3	71	31	12	7	34	3.81	-0.23	2.12	6.8	11	13	8	10	w.	U. S. Weather Bureau.
Tuckerton.....	Ocean.....	23	27	40.2	+1.2	74	31	10	8	39	3.96	-0.43	1.62	3.0	8	18	7	6	.....	Frank R. Austin.
Vineyard.....	Cumberland.....	109	52	42.4 <sup>a</sup>	+2.1	74	31	11	8	37	3.56	-0.60	1.52	.....	10	.....	.....	.....	.....	H. C. Himes.
Woodbine.....	Cape May.....	43	29	.....	.....	.....	.....	.....	.....	.....	3.35	-0.10	1.55	4.8	11	17	9	5	nw.	Jos. H. Cohen.
Philadelphia, Pa.....		117	50	43.8	+3.8	74	31	16	7	31	3.35	-0.10	1.55	4.8	11	17	9	5	nw.	U. S. Weather Bureau.
Means and extremes.....				41.3	+1.8	76	31	4	8	43	3.54	-0.55	2.12	4.9	9	18	4	9	nw.	
<i>The Sea Coast.</i>																				
Asbury Park.....	Monmouth.....	22	31	39.7 <sup>b</sup>	+1.4	71	31	12	7 <sup>†</sup>	33	2.29	-2.01	0.72	.....	9	21	2	8	w.	Miss Dorothy A. Alexander.
Atlantic City.....	Atlantic.....	16	47	39.8	+1.0	62	27	15	7	25	3.36	-0.37	1.72	2.5	10	19	4	8	sw.	U. S. Weather Bureau.
Cape May City.....	Cape May.....	17	36	41.5	+0.8	71	31	19	1	28	2.78	-0.45	1.06	1.2	12	19	2	10	nw.	U. S. Weather Bureau.
Long Branch.....	Monmouth.....	25	13	39.2	+1.0	71	31	12	7	27	2.98	-1.53	0.96	.....	10	17	7	7	w.	William D. Martin, Jr.
Sandy Hook.....	Monmouth.....	22	22	38.9	+2.2	66	31	13	7	28	3.43	-0.89	1.95	6.3	11	14	8	9	sw.	U. S. Weather Bureau.
Means and extremes.....				39.8	+1.3	71	31	12	7 <sup>†</sup>	33	2.97	-1.15	1.95	2.5	10	18	5	8	sw.	
For the State.....				39.4	+1.4	79	31	-8	8	48	3.80	-0.24	3.43	5.6	10	17	5	9	nw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Hackensack; Ridgefield is Morsemere.



Daily precipitation for March, 1920.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>The Highlands and Kittatinny Valley.</i>																																			
Belvidere.....	Delaware.....					.78	.49						.13	1.00	.11		.20	.20		.13	.28										.32			3.64	
Charlotteburg.....	Passaic.....					3.43								1.08			T.				.15													4.87	
Culvers Lake.....	Delaware.....					1.05	.70					T.	.02	.82	.02		.03	.24		.02	.54								T.	.02	.10	T.		3.56	
Dover.....	Passaic.....					2.70	.60					*	*	1.09			.36			.15	.28								.04		.12	.02		5.36	
Layton.....	Delaware.....					.86	.12					.03	.04	.85	.04		.22	T.		.11	.03								T.	T.	.03	.02		2.35	
Newton.....	Delaware.....					1.51	.80						.05	.40	.04		.21			.04	.28									T.		.05		3.88	
Phillipsburg.....	do.....					T.	1.30	.17				T.	.16	.99			.32			.13	.11								.06	.01	.14	T.		3.39	
Sussex.....	Hudson.....					1.00	.44							.99						.16		.45									.22			3.26	
<i>The Red Sandstone Plain.</i>																																			
Bergen Point.....	Coast.....					.77	1.25						T.		.01		.30			*	.43										.30			3.06	
Boonton     .....	Passaic.....					T.	2.27					T.	T.	.88	.34		.23				.47									.05		T.	.15	4.39	
Chatham   .....	do.....					T.	2.34					.02	.87	.42			.35			*	.41	.04									.04			4.49	
Elizabeth.....	Coast.....					* 2.70						T.	.11		1.15		.27			.49										.03	.21			4.96	
Flemington.....	Raritan.....					.94	.52					T.	.29	.91	.10		.28	.11		.08	.16								T.	.03	.05			3.47	
Highwood.....	Hackensack.....					1.02	.85					T.	.10	.77	T.		.20			.10	.20									T.	.02	.37		3.63	
Jersey City**.....	Coast.....					.17	2.23						.14	1.10	.14		.05	.18		.13	.40									T.	T.	.25		4.79	
Kearny.....	Coast.....					* 2.22						T.	T.	2.23			.17			*	.40										.28			5.30	
Lambertville.....	Delaware.....					T.	\$	\$				T.	.16			1.30	T.			.29										.20		T.		\$	
Little Falls.     .....	Passaic.....					.01	2.33					T.	T.	.78	.36		.19			.41	.15									.02		T.	.33	4.58	
Newark**.....	Coast.....					.98	.68						T.	1.16			.22			.45	.09									T.	.02		.35	3.95	
New Brunswick.....	Raritan.....					1.17	.71						.09	.98	.03		.07	.11		.12	.23									T.	.02		.05	3.56	
New Milford.....	Hackensack.....																																		
Paterson.....	Passaic.....					.60	1.20					T.	.20	.82	.02		.16	.02		.25	.26										.02		.11	T.	3.66
Plainfield.....	Raritan.....					1.53	.52						.15	1.23	T.		.31	.04		.25	.17								.01	.02	.15	.01		4.39	
Pompton Plains   .....	Passaic.....					.21	2.54							.86	.26			.31			.46	.04										.11		4.79	
Ridgefield.....	Hackensack.....					* 2.17						T.	.12	.95	.07			.23			.40									.03		.34	.01	4.32	
Somerville.....	Raritan.....					1.15	.95					T.	.20	1.00	.10		.10			.10	.19									T.		.15	.10	3.95	
South Orange.....	Rahway.....					* 2.26						T.	.16	.90			.51	.03		*	.60									T.	T.	.32		4.78	
Woodcliff Lake.....	Hackensack.....																																		
New York, N. Y***.....	Coast.....					2.00	.20					T.	.08	.87			.22				.42	.16								.01	T.		.20	T.	4.16
<i>The Southern Interior.</i>																																			
Bridgeton.....	Coast.....					T.	1.85						.10	1.05			.18			.15												T.		.05	3.68
Burlington.....	Delaware.....					.80	.82						.08	.95	.07		.21	.15		.15	.13									*	.05	.15		3.56	
Camp Dix.....	Delaware.....					.68	.38						.14	.86			.22	.08		.22	.05									.11	.05	.10	.04	2.93	
Clayton.....	Maurice.....					T.	.77	.57					*	.77			.28			.19	.11										.03		.10	2.82	
Hammonton.....	Mullica.....												.12		.83		.28			.32										T.	T.	.13	.26	2	
Hightstown.....	Raritan.....					1.01	1.33						.04	.89	.06		.05	.30		.12	.14										.04	.16		4.14	
Imlaystown.....	Delaware.....						.58							.17	.01		.01			.02	.07										.09	.09	.02	1.06	
Indian Mills.....	Mullica.....					.66	1.45						.15	.84			.47			.15	.15									T.	.03	.22		4.12	
Lakewood.....	Metedeconk.....					.84	1.20					T.	.11	.90	.08		.12	.08		.23	.18										T.	.27	.24	.34	4.59
Moorestown.....	Delaware.....					.46	.94								.90		.20			.05	.10												.20		2.85
Northfield.....	Coast.....					.56	.71							.86			.26	.03		.20	.16									.03	.01	.13		2.95	
Pleasantville.....	Coast.....					.97	.35						.02	.81			.24	T.		.32	.11									.01		.23		3.05	
Trenton***.....	Delaware.....					T.	1.72	.40				T.	.06	1.00			.29	.01		.20	.07									.01	.01	.04	T.		3.81
Tuckerton.....	Coast.....						1.62							.93			.28			.24	.21										.32		.28	.07	3.96
Vineland.....	Maurice.....						1.52						.15	.88	.01		.23	.07		.30											.04		.14	3.56	
Woodbine.....	Coast.....																																		
Philadelphia, Pa..	Delaware.....					T.	1.40	.15				T.	.07	.99			.34	.02		.17	.04									.06	.01	.10		3.35	
<i>The Sea Coast.</i>																																			
Asbury Park.....	Coast.....					.72								.77			.10			.23											.10		.37	2.29	
Atlantic City***.....	do.....					1.42	.30						.05	.72			.27	.02		.34	.03									.05		.16		3.36	
Cape May City.....	do.....					T.	.91	.16					.09	.67	T.		.13	.07		.46	.08									.01	.05	.09	.06	2.78	
Long Branch**.....	do.....						.96						.10	.70			.09	.01		.89	.10										.02	.02	.09		2.98
Sandy Hook***.....	do.....					1.35	.60						.03	.73			.11	.01		.31	.12										.02	.04	.11		3.43

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
\* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.			Moisture.		Sun- shine	
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine.
							Miles per hour.	Direction.	Date.			
Atlantic City.....	30.04	30.51	3	29.18	13	9	36	s.	12	74	74	66
Cape May City.....	30.08	30.53	8	29.32	5	11	48	nw.	5	75	77	.....
Long Branch.....							74	nw.	17			
Newark.....							40	nw.	13	73*	68†	60
New York, N. Y.....	30.00	31.53	3	29.08	13	23	78	nw.	6	64	58	65
Philadelphia, Pa.....	30.05	30.53	3	29.24	13	11	43	nw.	5	67	60	63
Ridgefield.....	30.00	31.54	3	29.07	13							
Sandy Hook.....	30.01	30.55	3	29.05	13	18	64	w.	6	82	80	75
Trenton.....	30.01	30.49	3	29.15	13	14	46	w.	13	72	64	64



Daily temperatures for March, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
The Highlands and Kittatinny Valley																																		
Belvidere.....	Maximum...	38	38	47	44	46	40	25	31	42	51	53	55	47	36	45	55	45	44	32	28	25	29	27	60	69	69	64	58	54	62	73	50.0	
	Minimum...	7	11	13	20	38	15	8	16	17	25	30	35	30	16	17	32	28	25	27	27	27	27	27	27	27	27	27	27	27	27	27	25.6	
Charlotteburg.....	Maximum...	35	33	42	41	35	40	33	34	37	51	49	52	47	37	40	52	45	40	27	27	27	27	27	27	27	27	27	27	27	27	27	27	47.2*
	Minimum...	9	3	6	17	34	11	7	1	16	28	26	34	34	14	12	20	35	27	35	27	35	27	35	27	35	27	35	27	35	27	35	27	48.2*
Dover.....	Maximum...	34	34	43	37	40	25	25	29	29	51	55	54	50	32	42	53	51	38	31	36	47	56	65	64	71	60	52	68	57	60	70	48.2*	
	Minimum...	10	10	10	20	25	10	8	6	20	29	29	36	21	16	20	32	34	27	32	27	32	26	29	25	64	68	61	55	68	58	59	72	47.5
Layton.....	Maximum...	34	33	41	40	40	33	21	27	40	51	51	51	50	30	43	48	50	42	35	42	47	56	64	64	68	61	55	68	58	59	72	47.5	
	Minimum...	5	5	5	14	33	14	7	8	15	28	25	32	22	15	9	30	35	35	26	26	26	26	26	26	26	26	26	26	26	26	26	26	21.6*
Newton.....	Maximum...	33	33	41	40	45	35	20	26	38	48	51	52	50	28	40	50	50	38	32	36	46	53	64	65	65	62	56	63	59	57	69	46.6	
	Minimum...	8	12	15	22	28	11	8	6	18	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Phillipsburg.....	Maximum...	37	37	45	40	44	26	27	32	42	53	56	55	47	36	45	56	51	41	33	37	48	58	69	68	72	62	56	67	58	61	72	49.4	
	Minimum...	10	16	18	25	18	11	10	12	18	30	34	38	18	17	22	32	24	29	26	30	29	28	29	30	36	30	33	43	36	40	26.5		
Sussex.....	Maximum...	36	39	48	45	45	13	7	0	12	22	21	34	23	11	12	29	32	35	22	22	21	13	23	25	22	28	29	33	31	34	38	21.5*	
	Minimum...	9	6	8	16	36	13	7	0	12	22	21	34	23	11	12	29	32	35	22	22	21	13	23	25	22	28	29	33	31	34	38	21.5*	
The Red Sandstone Plain.																																		
Bergen Point.....	Maximum...	38	36	46	45	48	41	37	37	43	53	56	59	43	36	46	57	56	50	35	39	50	59	59	65	71	59	55	67	58	60	73	50.9	
	Minimum...	14	20	19	27	40	15	11	11	21	31	38	41	24	18	22	33	35	32	27	26	29	29	29	29	29	29	29	29	29	29	29	29	28.5*
Boonton§§.....	Maximum...	35	36	43	45	49	23	25	28	40	51	52	54	43	32	44	51	46	39	33	39	47	59	59	62	65	70	61	53	67	58	58	69	47.5
	Minimum...	12	8	9	16	30	15	10	4	13	26	30	34	37	16	18	27	33	23	22	25	29	24	29	28	25	30	33	35	34	36	37	24.3	
Elizabeth.....	Maximum...	39	35	45	41	45	44	28	33	44	55	57	58	55	37	47	54	54	44	41	39	51	59	69	67	73	64	58	69	58	61	72	51.5	
	Minimum...	12	18	17	27	38	15	11	8	21	30	32	37	35	16	20	33	40	31	26	32	29	28	31	30	29	34	45	43	40	37	39	28.2	
Flemington.....	Maximum...	40	40	50	41	43	44	30	30	43	55	56	55	51	37	45	53	52	43	38	39	52	60	68	71	75	64	63	68	66	62	79	52.0	
	Minimum...	13	16	17	24	32	17	12	12	20	29	32	35	28	18	22	33	38	41	26	32	30	30	34	64	68	59	56	66	54	60	71	48.4	
Highwood.....	Maximum...	36	32	45	44	48	40	25	31	41	51	51	53	50	32	42	51	51	41	34	38	48	55	62	64	69	27	32	41	34	37	38	26.0	
	Minimum...	11	10	12	24	37	15	11	5	20	24	31	35	24	20	20	32	37	30	21	31	24	25	32	31	34	39	37	36	43	47	37	51.0	
Jersey City.....	Maximum...	31	36	44	43	48	41	33	32	40	55	54	56	53	36	44	55	55	44	41	38	52	60	67	63	72	60	58	68	63	61	73	46.0	
	Minimum...	15	22	24	32	41	16	13	14	25	34	38	40	34	19	25	34	38	34	28	33	32	39	40	33	33	40	33	33	46	37	45	46	30.8
Kearny.....	Maximum...	37	35	45	42	55	32	26	31	43	55	57	60	55	33	46	56	54	43	36	39	52	61	70	74	60	60	72	62	65	76	51.5		
	Minimum...	14	19	27	30	32	14	12	13	25	33	36	43	24	19	25	34	38	34	28	33	32	39	40	33	33	40	33	33	46	37	45	46	30.8
Laubertville.....	Maximum...	37	34	42	43	46	41	23	28	39	49	54	57	54	32	40	53	53	40	40	33	46	55	62	62	67	62	63	58	59	65	59	69	49.0*
	Minimum...	11	14	15	24	38	16	11	10	14	30	33	39	26	17	15	33	38	30	24	31	28	26	29	30	28	35	46	37	40	40	42	29.5	
Little Falls.....	Maximum...	39	36	46	45	48	24	26	30	42	55	54	60	45	35	48	55	48	44	35	41	51	59	67	66	72	60	55	70	58	61	73	49.9	
	Minimum...	15	16	21	32	17	13	10	10	21	30	33	37	40	20	23	31	38	33	26	30	31	29	33	33	33	34	44	38	41	40	42	29.5	
Newark.....	Maximum...	39	33	43	42	45	32	32	39	42	56	49	53	43	35	42	55	48	38	34	37	48	54	65	67	66	55	54	66	60	60	60	60	47.3*
	Minimum...	15	21	25	37	32	17	17	17	23	32	38	43	22	18	25	35	34	28	31	31	27	30	28	41	35	43	37	37	41	40	45	30.5	
New Brunswick.....	Maximum...	35	36	45	41	47	44	25	30	41	52	58	60	52	35	45	55	55	42	40	40	48	61	67	67	73	65	60	66	66	69	71	51.5	
	Minimum...	14	20	20	27	35	17	12	13	22	32	35	39	31	18	20	40	41	31	27	32	30	31	35	34	46	37	45	32	40	41	42	30.3	
Paterson.....	Maximum...	40	36	46	42	46	45	29	33	44	55	51	55	52	36	45	54	54	45	45	45	47	37	39	51	60	70	68	75	67	62	74	51.6	
	Minimum...	14	16	18	28	38	16	11	9	23	35	33	35	27	19	23	33	40	32	25	32	31	30	34	32	30	35	42	36	40	39	44	29.0	
Plainfield.....	Maximum...	38	37	47	42	43	31	27	32	44	55	57	58	50	37	46	54	52	43	33	40	50	60	68	67	72	63	57	68	64	60	73	50.4	
	Minimum...	13	16	16	26	30	17	10	10	20	27	31	36	23	18	18	32	35	28	25	32	31	26	28	30	33	43	29	36	38	41	26.7		
Ridgefield.....	Maximum...	35	31	44	38	46	24	25	31	41	52	50	54	47	33	43	52	50	42	33	36	48	58	67	63	71	59	54	68	55	35	42	27.1	
	Minimum...	11	15	16	24	24	13	11	9	21	32	34	39	21	20	21	38	35	27	23	30	27	29	37	34	27	35	39	33	39	65	74	53.0	
Somerville.....	Maximum...	40	40	48	43	45	43	30	34	45	55	56	59	55	38	48	55	53	44	39	40	53	61	70	72	75	72	59	65	63	64	67	36	26.7
	Minimum...	12	18	16	25	37	15	12	12	17	27	32	35	27	18	18	33	33	30	25	30	27	27	30	28	29	34	43	32	37	37	36	26.7	
South Orange.....	Maximum...	35	33	41	42	45	36	22	28	37	44	45	54	52	31	36	55	50	40	33	40	46	55	64	60	66	57	54	65	58	58	70	46.8	
	Minimum...	14	16	19	29	36	12	11	10	20	30	35	40	24	18	22	25	35	30	26	32	30	30	37	35	33	38	42	35	39	38	44	28.5	
New York, N. Y.....	Maximum...	38	34	44	45	48	22	26	30	40	53	58	57	53	34	48	55	53	42	34	40	50	58	65	60	68	56	58	67	59	58	69	48.1	
	Minimum...	15	24	28	32	22	14	12	14	24	33	39	48	23	20	25	38	37	31	28	31	33	36	44	44	42	47	42	37	41	40	48	32.0	
The Southern Interior.																																		
Bridgeton.....	Maximum...	41	43	52	58	57	37	30	34	48	62	66	63	52	40	50	55	60	50	40	46	55	64	68	70	73	68	62	68	70	68	76	55.7	
	Minimum...	11	17	20	29	37	17	14	14	21	30	37	45	39	24	25	38	42	30	31	34	29	28	33	34	36	42	50	34					

<sup>a, b, c, etc.</sup>, indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

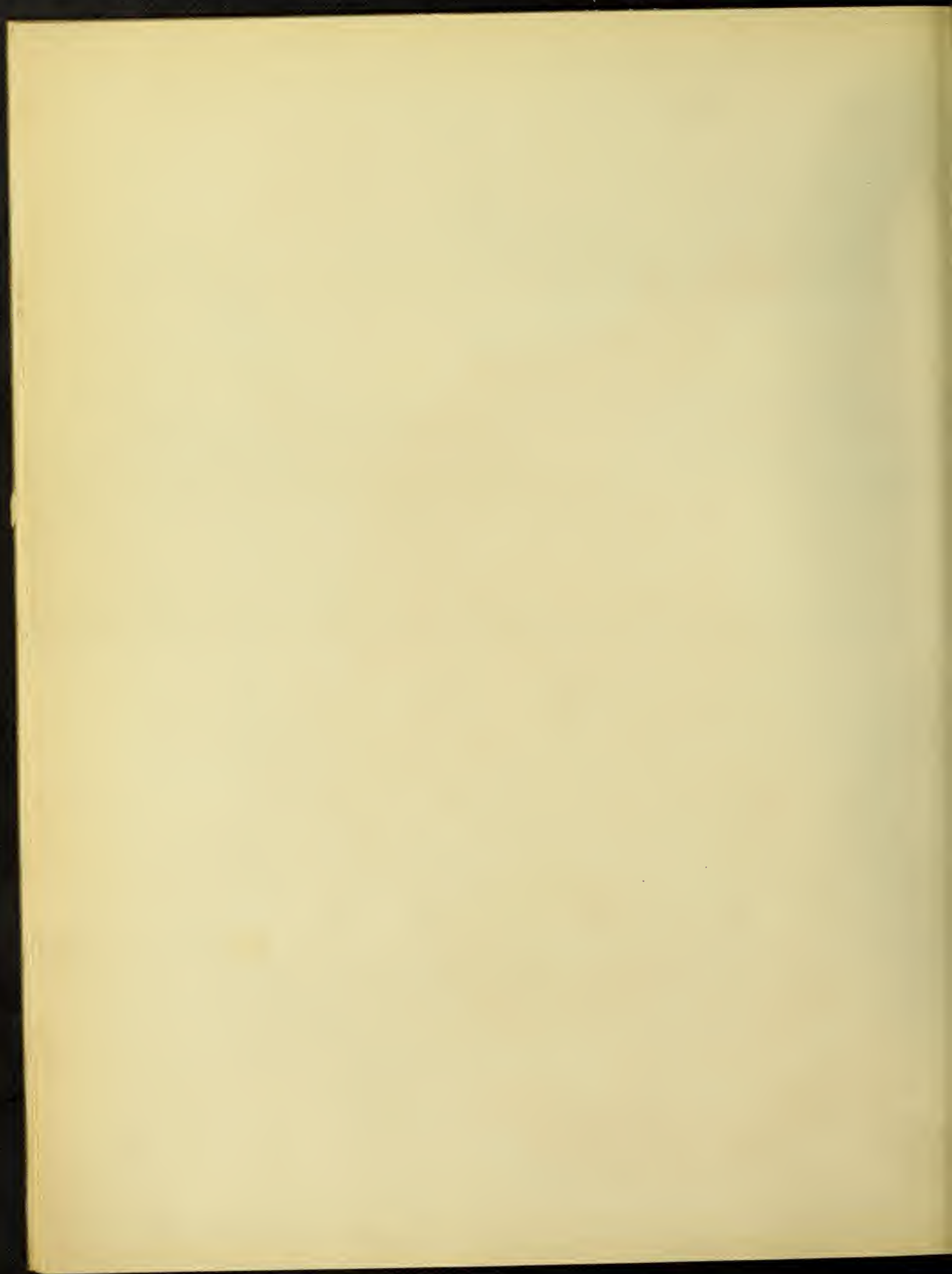
§§ Instruments are read in the morning; the maximum temperature then read is charged



Total Precipitation, Inches, March, 1920.







U. S. DEPARTMENT OF AGRICULTURE  
WEATHER BUREAU

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# CLIMATOLOGICAL DATA

## NEW JERSEY SECTION

APRIL, 1920.

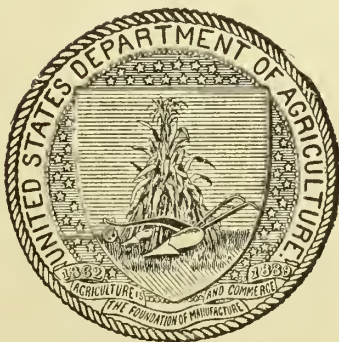
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BY

G. HAROLD NOYES

METEOROLOGIST

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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
MAY 29, 1920.



Departure of the Mean Temperature from the Normal, April, 1920.



Shaded portions show excess (+).  
 Unshaded portions show deficiency (-).  
 Lines show amount of excess or deficiency.

Scale: 1 inch = 100 miles  
 1:50,000  
 1:100,000  
 1:200,000  
 1:500,000  
 1:1,000,000



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV.

TRENTON, N. J., APRIL, 1920.

No. 4.

## GENERAL SUMMARY.

Weather conditions varied only slightly from normal during April, 1920, in New Jersey. Typical changeableness, sunshine and showers, gentle and turbulent winds, were the characteristic features. A warm period prevailed the first of the month for a few days, and again from the 19th to the 23d, but the remaining periods were mostly subnormal in warmth. Rains fell very generally on the first 9 days of the month, and on the 13th, 16th, 17th, 21st, 23d, 24th, 27th, 28th and 30th.

While the amount of sunshine and rain was slightly above normal, the low temperature and frequency of rain contributed in marked degree to interfering with farming and other out-of-door operations, and crop growth and germination were decidedly backward. Some phenological criteria, however, showed the season to be only a day or two later than usual.

Highways returned to passable condition but slowly, and motor traffic on nearly all roads was interrupted considerably. The use of the roads by heavy trucks while frost was leaving the ground, and before settling, has become a grave menace to the permanence of the most highly skilled road building. During the winter ending a year ago, there was practically no frost in the ground, but this year the ground was frozen deeply, and for a prolonged period.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 40 stations was 48.0°, which was 1.0° below the normal. The highest temperature was 85° at Bridgeton on the 23d, and the lowest, 10° at Culvers Lake on the 9th. The highest monthly mean temperature was 52.5° at Bridgeton, and the lowest, 43.8° at Charlotte. The greatest daily range of temperature was 42° at Layton on the 20th. The temperature departure from the normal for the year 1920 to date, by sections, is: The Highlands, -2.8°; Red Sandstone Plain, -1.9°; Southern Interior, -1.5°; Sea Coast, -1.9°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 45 stations was 4.50 inches, which was 0.93 inch above the normal. The mean total snowfall was trace, which was 0.8 inch less than the normal. The greatest monthly precipitation was 6.06 inches at Long Branch, and the least, 2.90 inches at Cape May City. The greatest amount of precipitation in any 24 consecutive hours was 2.02 inches at Charlotteburg on the 4th-5th. The mean number of days on which 0.01 inch or more precipitation occurred was 13, which was 3 more than the normal. The precipitation accumulated departure from the normal for the year 1920 to date, by sections, is: The Highlands, -0.17 inch; Red Sandstone Plain, +0.70 inch; Southern Interior, -0.67 inch; Sea Coast, -0.77 inch.

## WIND.

The prevailing direction was from the northwest, with an approximate velocity of 12 miles per hour, which was about normal. The highest wind velocity, sustained for 5 consecutive minutes, was 66 miles per hour from the northwest on the 23d at Long Branch. High winds were also reported on the 5th, 6th, 13th and 24th.

## SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 12, which was 1 more than the normal; partly cloudy, 9, which was 1 less than the normal; cloudy, 9, which was normal. The mean percent. of possible sunshine approximated 58, and was about normal.

## MISCELLANEOUS.

The mean daily stage of the Delaware River at Phillipsburg was 6.6 feet, the highest being 10.9 feet on the 3d. At Trenton the mean daily stage was 4.4 feet, which was 0.4 foot above the normal; the highest stage was 6.7 feet on the 14th.

The mean atmospheric pressure, reduced to sea level, was 29.84 inches, which was 0.16 inch below the normal. The highest reading, 30.23 inches, occurred at Cape May City on the 26th, and the lowest, 29.12 inches, at Sandy Hook on the 5th.

Dense fog was reported on the 1st, 2d, 4th, 5th, 21st, 23d and 27th. Hail fell on the 4th, 5th, 11th, 23d and 24th, but no damage resulted. The aurora was observed on the 18th, 19th and 20th. Solar halos were observed on the 1st, 6th, 10th, 11th, 12th, 20th, 26th and 30th; and a lunar halo on the 25th. Thunderstorms occurred on the 1st, 2d, 5th, 11th, 20th, 21st, 22d, 23d and 24th. The last killing frost of Spring occurred quite generally on the 26th and at several stations as late as the 30th.

## COMPARATIVE DATA FOR APRIL.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	48.4	88	26	2.79	2.86	0.89	.....	.....	.....	.....
1886.....	50.6	86	27	3.40	5.18	1.86	.....	.....	.....	.....
1887.....	47.3	87	16	2.70	3.77	0.91	.....	.....	.....	.....
1888.....	47.9	92	22	3.28	4.68	1.89	.....	.....	.....	.....
1889.....	51.2	83	25	5.32	7.25	2.92	.....	.....	.....	.....
1890.....	50.4	86	21	2.65	4.58	1.89	.....	.....	.....	.....
1891.....	52.0	88	20	2.19	3.80	1.39	13	11	6	8
1892.....	49.3	87	19	2.49	4.41	1.05	9	13	8	8
1893.....	49.2	82	19	5.21	7.12	2.97	9	10	12	11
1894.....	50.3	88	10	3.09	4.86	1.71	12	9	9	9
1895.....	49.1	89	19	4.88	7.75	3.47	11	7	12	10
1896.....	52.4	98	12	1.35	2.30	0.64	13	10	7	7
1897.....	50.4	89	19	3.79	6.98	2.17	14	11	5	9
1898.....	47.8	81	13	3.74	4.94	2.17	8	11	11	11
1899.....	49.9	88	18	1.73	3.25	0.48	16	10	4	4
1900.....	50.8	82	18	2.29	3.03	1.59	14	9	7	6
1901.....	48.3	89	23	6.31	10.22	3.46	8	7	15	12
1902.....	50.2	93	20	3.62	5.99	2.45	10	11	9	9
1903.....	50.9	92	18	3.97	7.03	2.40	13	7	10	9
1904.....	46.7	85	16	3.42	4.71	2.00	9	12	9	10
1905.....	49.9	84	18	2.88	4.03	1.53	12	11	7	10
1906.....	51.2	87	17	3.64	6.42	1.17	15	10	5	8
1907.....	45.2	83	19	3.78	8.67	2.06	11	9	10	11
1908.....	51.2	93	13	2.72	3.86	1.42	14	9	7	11
1909.....	50.2	88	17	5.97	8.90	3.84	10	11	9	13
1910.....	53.5	88	20	5.34	7.56	3.43	9	11	10	12
1911.....	47.4	88	14	4.11	5.58	2.87	10	10	10	11
1912.....	50.4	82	18	3.56	6.02	1.81	9	10	11	14
1913.....	52.1	89	19	5.78	8.53	4.14	14	7	9	11
1914.....	48.4	89	15	3.67	4.78	2.35	13	10	7	11
1915.....	54.4	96	20	2.71	4.13	1.28	14	10	6	9
1916.....	48.2	85	20	3.32	6.14	0.90	10	9	11	13
1917.....	48.8	88	15	2.39	3.54	1.19	15	8	7	9
1918.....	49.8	81	18	4.05	5.79	2.88	11	8	11	12
1919.....	49.3	85	10	3.06	4.79	2.20	13	7	10	10
1920.....	48.0	85	10	4.50	6.06	2.90	12	9	9	13



## Climatological data for April, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere.....	Warren.....	289	29	47.2	-2.4	80	22	21	10	40	4.60	+1.33	0.87	.....	10	17	4	9	.....	Samuel J. Hixson.
Charlotteburg.....	Passaic.....	719	28	43.8 <sup>a</sup>	2.9	67	23	17	9	37	5.49	+1.56	1.60	T.	9	14	11	5	nw.	George S. Briggs.
Culvers Lake†.....	Sussex.....	848	19	.....	.....	.....	.....	.....	.....	.....	5.40	+1.53	2.02	1.0	14	13	9	8	e.	Brice E. Riker.
Dover.....	Morris.....	600	36	45.0	-2.3	76	22	21	9†	36	5.61	+2.10	1.03	T.	14	4	19	7	.....	William C. Harris.
Layton.....	Sussex.....	480	20	45.0 <sup>a</sup>	-1.5	75	22	17	9	42	5.23	+1.92	1.02	T.	12	.....	.....	.....	ne.	A. M. Depue.
Newton.....	Sussex.....	769	39	44.1 <sup>a</sup>	-3.5	71	22	17	6	30	4.88	+1.67	1.54	0.4	15	9	11	10	w.	Irving G. Kern.
Phillipsburg.....	Warren.....	363	38	46.8	-2.8	79	22	24	9†	34	5.30	+2.28	1.21	T.	16	14	9	7	nw.	D. Wilson Smith.
Sussex.....	Sussex.....	442	29	45.6†	-2.7	76	22	13	8	.....	.....	.....	1.30	T.	.....	.....	.....	.....	nw.	Rev. W. August George.
Means and extremes.....				45.4	-2.6	80	22	10	9	42	5.22	+1.77	2.02	0.2	13	12	10	8	nw.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point†.....	Hudson.....	37	23	48.2 <sup>a</sup>	-0.3	78	22	27	8†	30	4.65	+0.76	1.53	T.	10	5	18	7	nw.	William H. Mitchell.
Boonton.....	Morris.....	400	30	45.4	.....	76	22	21	9	37	5.43	+1.67	0.91	T.	16	18	4	8	nw.	J. W. Demmers.
Chatham.....	Morris.....	330	18	.....	.....	.....	.....	.....	.....	.....	5.35	+2.21	1.23	0	13	13	7	10	.....	George Shields.
Elizabeth.....	Union.....	45	41	48.4	-2.4	78	22	24	9†	36	4.72	+1.15	1.08	T.	12	12	10	8	nw.	L. B. Bonnett.
Flemington.....	Hunterdon.....	140	31	48.6	-0.5	82	22	24	9	33	4.62	+1.18	0.85	T.	13	16	6	8	e.	Hiram E. Deats.
Highwood.....	Bergen.....	90	32	46.6	-1.9	74	22	20	10	36	4.04	+0.65	1.03	T.	12	10	9	11	nw.	Charles J. Bates.
Jersey City.....	Hudson.....	10	21	49.4	0.0	79	22	28	9†	33	4.80	+1.10	0.89	T.	14	7	14	9	nw	S. K. Pearson, Jr.
Kearny.....	Hudson.....	.....	.....	49.6	.....	80	22	27	8†	31	4.35	.....	1.14	T.	12	3	16	11	nw.	Wm. J. Chandler, M. D.
Lambertville.....	Hunterdon.....	80	33	47.6	-2.8	75	22	21	10	33	5.29	+1.89	1.10	T.	15	7	8	15	w.	Thomas R. Hunt.
Little Falls.....	Passaic.....	180	17	48.4 <sup>c</sup>	.....	79	22	26	8†	35†	5.05	+1.51	1.17	T.	16	14	6	10	w.	Montclair Water Co.
Newark.....	Essex.....	159	78	48.3 <sup>c</sup>	-0.8	.....	.....	28	9†	26†	4.85	+1.12	1.20	0.2	17	10	10	10	w.	Prof. William Wiener.
New Brunswick.....	Middlesex.....	110	67	48.7	-1.0	78	23	25	9	30	4.28	+0.49	0.98	T.	12	13	9	8	nw.	N. J. Experiment Station.
New Milford.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	.....	Hackensack Water Co.
Paterson.....	Passaic.....	80	49	49.2	-1.1	77	22	25	9	35	4.21	+0.72	0.95	T.	13	8	2	20	nw.	Marion T. Probert.
Plainfield.....	Somerset.....	100	33	46.8	-1.4	78	22	20	9	35	5.05	+1.15	1.13	T.	14	7	13	10	nw.	E. D. Pearson.
Pompton Plains.....	Morris.....	195	18	.....	.....	.....	.....	.....	.....	.....	4.00	+0.44	0.76	.....	13	.....	.....	.....	.....	M. S. Taylor
Ridgefield.....	Bergen.....	70	5	46.2	.....	76	22	23	9	33	3.82	.....	1.18	T.	16	9	11	10	nw.	George P. Kirsten.
Somerville.....	Somerset.....	60	38	49.0	+0.3	80	22	23	9†	36	4.89	+0.34	1.10	T.	12	11	8	11	w.	Peter V. D. Hardcastle.
South Orange.....	Essex.....	200	50	47.2	-1.1	74	22	25	9	26	5.25	+1.76	1.35	T.	14	10	9	11	w.	Wm. H. Meeder.
Woodcliff Lake.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	T.	.....	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	.....	365	50	47.7	-0.4	73	22	30	9	27	4.44	+1.14	1.05	T.	14	5	14	11	nw.	U. S. Weather Bureau.
Means and extremes.....				48.0	-1.1	82	22	20	9†	37	4.70	+1.13	1.53	T.	14	10	10	10	nw.	
<i>The Southern Interior.</i>																				
Bridgeton.....	Cumberland.....	30	39	52.5	+0.7	85	23	28	9	32	3.94	+0.51	1.10	T.	0	18	3	9	w.	Henry A. Jorden.
Burlington.....	Burlington.....	12	34	49.7 <sup>a</sup>	-1.4	80	22	26	10	32	4.29	+0.92	0.98	0	12	21	2	7	nw.	D. S. B. McCoy.
Camp Dix.....	Burlington.....	.....	2	48.9	.....	78	22	24	9†	34	6.04	.....	1.08	T.	18	4	2	24	se.	U. S. Army.
Clayton.....	Gloucester.....	126	28	49.6 <sup>b</sup>	-0.7	78	22	27	10	35	4.27	+1.13	0.90	.....	11	20	5	5	nw.	Marvin Porch.
Hammonton.....	Atlantic.....	103	18	.....	.....	.....	.....	.....	.....	.....	4.60	+0.76	1.32	.....	11	13	14	3	e.	G. H. Parkhurst.
Hightstown.....	Mercer.....	120	27	49.4	-0.4	79	22	25	9†	36	4.42	+0.51	1.24	.....	13	9	12	9	nw.	Rev. W. A. Stanton.
Imlaystown.....	Monmouth.....	185	31	48.8	-1.8	79	22	23	9†	40	3.52	+0.02	0.87	.....	13	14	6	10	sw.	Wm. R. Hendrickson.
Indian Mills.....	Burlington.....	76	31	49.9	-0.4	80	22†	22	9†	37	4.18	+1.05	1.08	T.	11	10	13	7	w.	James M. Armstrong.
Lakewood.....	Ocean.....	54	17	48.8	-0.9	77	22†	22	9	35	3.27	-0.46	0.90	T.	9	12	7	11	w.	R. W. Holman.
Moorestown.....	Burlington.....	75	58	50.3 <sup>c</sup>	+0.3	76	22	28	9	.....	3.18	-0.01	0.65	.....	9	.....	.....	.....	nw.	David S. Haines.
Northfield.....	Atlantic.....	25	13	.....	.....	.....	.....	.....	.....	.....	2.98	-0.39	0.80	.....	10	.....	.....	.....	.....	William L. Flick.
Pleasantville.....	Atlantic.....	26	22	.....	.....	.....	.....	.....	.....	.....	3.07	-0.42	0.75	.....	14	19	2	9	.....	Lincoln Van Gilder.
Trenton.....	Mercer.....	190	49	47.8	-2.0	78	22	28	9	27	4.34	+2.05	0.97	T.	15	8	12	10	w.	U. S. Weather Bureau.
Tuckerton.....	Ocean.....	23	27	49.6	+1.7	80	22†	22	9	35	4.11	+0.32	0.77	T.	11	14	12	4	nw.	Frank R. Austin.
Vineland.....	Cumberland.....	109	52	52.1	+1.4	81	22†	27	9	34	3.93	+0.59	1.05	.....	10	14	10	6	nw.	H. C. Himes.
Woodbine.....	Cape May.....	43	29	.....	.....	.....	.....	.....	.....	.....	3.92	+1.01	0.88	T.	16	10	13	7	nw.	Jos. H. Cohen.
Philadelphia, Pa.....	.....	117	50	51.4	+0.6	80	23	32	9	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	U. S. Weather Bureau.
Means and extremes.....				49.6	-0.3	85	23	22	9	40	4.01	+0.40	1.32	T.	12	13	8	9	nw.	
<i>The Sea Coast.</i>																				
Asbury Park.....	Monmouth.....	22	31	48.2 <sup>b</sup>	+0.1	70	30	26	10	26	4.07	+0.40	1.13	.....	9	16	5	9	w.	Miss Dorothy A. Alexander.
Atlantic City.....	Atlantic.....	16	47	48.1	+0.5	80	22	32	6	31	3.39	+0.40	0.83	T.	15	11	11	8	nw.	U. S. Weather Bureau.
Cape May City.....	Cape May.....	17	36	49.6	+1.3	78	22	31	9	28	2.90	-0.09	0.81	T.	11	14	8	8	nw.	U. S. Weather Bureau.
Long Branch.....	Monmouth.....	25	13	44.9	-3.8	68	30	24	9	25	6.06	+1.63	1.70	T.	14	7	13	10	nw.	William D. Martin, Jr.
Sandy Hook.....	Monmouth.....	22	22	46.6	-0.1	71	22	29	8	25	4.95	+0.66	1.94	T.	15	6	14	10	sw.	U. S. Weather Bureau.
Means and extremes.....				47.5	-0.4	80	22	24	9	31	4.27	+0.60	1.94	T.	13	11	10	9	nw.	
For the State.....				48.0	-1.0	85	23	10	9	42	4.50	+0.93	2.02	T.	13	12	9	9	nw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Hackensack; Ridgefield is Monmouth.



Daily precipitation for April, 1920.

Stations.	Watershed.	Day of month.																															Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>The Highlands and Kittatinny Valley</i>																																		
Belvidere.....	Delaware.....	.87			.29	.86											.35	.73				.71		.19				.08	.24		.28		4.60	
Charlotteburg.....	Passaic.....	.45			* 1.60					T.				1.09			* 1.00					.53	.20					.62					5.49	
Culvers Lake.....	Delaware.....	T. .70	T.	.10	.02			.02	T.	.02				.50			.21	.55				.58	T.	.20	.02			.12	.34		.02		5.44	
Dover.....	Passaic.....	* .68			* .95			.05		T.				1.03			* 1.02					.99		.22	.02				* .54		.13		5.61	
Layton.....	Delaware.....	.73	T.	.21	1.02			.05						.76			.28	.57				.84		.15				.12	.42		.08		5.23	
Newton.....	Delaware.....	.59	T.	.13	1.54			.03	.02	T.				.41			.24	.62	.01			.61	.23	.03				.13	.23	T.	.06		4.88	
Phillipsburg.....	do.....	.02	1.01		.20	1.21	T.	.04		T.			.02	.66			.49	.28			.04	.94		.13			.03	.08	.15		.20		5.50	
Sussex.....	Hudson.....	.60			* 1.30					T.				.41			.13	.59				.71		.16									\$	
<i>The Red Sandstone Plain.</i>																																		
Bergen Point.....	Coast.....	.60		.23	.12			T.			T.			.42								1.53		.29	T.			.51	.41	.41		.13		4.65
Boonton     .....	Passaic.....	.15	.63		.11	.85		.01	T.		T.			.70	.04		T.	.91	.02			.78	.50	.27	.02			.03	.38	.13			5.43	
Chatham     .....	do.....	.27	.64		.09	.39		T.	T.		T.		.73			.70	.02				1.23	.22	.27	T.			.03	.35		.41		5.35		
Elizabeth.....	Coast.....	* .73			* .38			T.			T.			.69			* .69				1.08		.41	.02				*	.72		T.		4.72	
Flemington.....	Raritan.....	.78	.09	.08	.85			.03						.41			.13	.55				.94		.21	T.			.11	.33		.11		4.62	
Highwood.....	Hackensack.....	.34		.04	.11	T.		T.		T.				.76			.28	.48				1.03		.31	.06			.06	.46	T.	.11		4.04	
Jersey City**.....	Coast.....	.55	.12	.12	.16	T.		.01	T.	T.				.89			.05	.66				1.20		.43	.02			.08	.50		.01		4.80	
Kearny.....	Coast.....	* .66			* .34									.69			* .62					1.14		.30				*	.60		T.		4.35	
Lambertville.....	Delaware.....	* .71			* 1.21			.03	T.	T.				.58			* .64				1.10		.23				*	*	.58		.21		5.29	
Little Falls.     .....	Passaic.....	.23	.43		.12	.40		.02						.93	.04		.77	.04			.83	.34	.28	.03				.03	.39	.17	T.		5.05	
Newark**.....	Coast.....	.04	.67		.05	.27	.07	.03		T.			.05	.65			.42	.26			.08	1.20		.40			.01	.24	.37		.04		4.85	
New Brunswick.....	Raritan.....	.54	.04	.12	.34			T.	T.					.63			.07	.45	.05			.98		.38	T.			.08	.60	T.			4.28	
<i>The Southern Interior.</i>																																		
New Milford.....	Hackensack.....	.63	.02	.03	.40	T.		T.		T.				.83			.20	.47				.95		.18	.02			.06	.37		.05		4.21	
Paterson.....	Passaic.....	.15	.60	.06	.08	.51		.01	T.	T.				.71			.10	.55				1.13		.33	T.			.22	.52	T.	.08		5.05	
Plainfield.....	Raritan.....	.11	.67		.11	.76		T.	T.	T.				.20	.03		.56	T.				.44	.36	.24				.04	.14	.34			4.00	
Pompton Plains     .....	Passaic.....	* .31	.05	*	.10			T.	T.	T.				.69			.38	.27				1.18		.28	.02		*	*	.43	T.	.11		3.82	
Ridgefield.....	Hackensack.....	.75	.10	.05	.70			T.		T.				.50			.07	.60				1.10		.32				.08	.61		.01		4.89	
Somerville.....	Raritan.....																																	
South Orange.....	Rahway.....	.01	.60	.18	.08	.42		.03		T.				.87			.43	.25				1.35		.32	T.			.20	.48		.03		5.25	
Woodcliff Lake.....	Hackensack.....																																	
New York, N. Y***	Coast.....	.10	.43		.17	.09	T.	T.	T.	T.				.90			.41	.24			.05	1.00		.41			.02	.10	.43		.09		4.44	
<i>The Southern Interior.</i>																																		
Bridgeton.....	Coast.....	.50		1.00	.15			T.						1.10			T.	.20				.35					.25	.05			.34		3.94	
Burlington.....	Delaware.....	T. .98		.15	.43			T.						.65			* .35	.02				.57		.22				.20	.32		*		4.29	
Camp Dix.....	Delaware.....	.69	.25	.21	.43	.04	.04						1.08	.05		.02	.22	.08				.44	.64	.34			.18	.49	.05		.99		6.04	
Clayton.....	Maurice.....	T. .90		.50	.44		.02							.85			.31	.51				.11	.51	.06			T.	.08		.49			4.27	
Hammononton.....	Mullica.....	.80		.48	.04		.02							1.32			.32					.59		.05				.15	.42		.41		4.60	
Hightstown.....	Raritan.....	.55	.10	.09	.27	.01								.75			.09	.37	.01			1.24		.37	T.			.11	.46				4.42	
Imlaystown.....	Delaware.....	.63	.01	.09	.26		.02							.33			.05	.29				.87		.35	.01			.17	.44				3.52	
Indian Mills.....	Mullica.....	T. .68		.30	.20		.05	T.						1.08			T.	.27				.64		.20	T.			T.	.42		.20		4.18	
Lakewood.....	Metedeconk.....	.74		.21	.06			T.						.10			T.	.35				.90		.37				.20	.34		T.		3.27	
Moorestown.....	Delaware.....	T. .77		.17	.43		.01							.65			T.	.12				.58					T.	.15	.30				3.18	
Northfield.....	Coast.....	.39		.80	.05		.01							.42			.31	.80				.35		.08				.24	.23				2.98	
Pleasantville.....	Coast.....	T. .37		.75	.03		.01	T.						.51			T.	.30	.01			.05	.25	.24				.04	.22	.19		.10	3.07	
Trenton***.....	Delaware.....	.04	.76		.11	.44	T.	T.		T.			.01	.45			.18	.13				.16	.81	.22			.08	.11	.34		.50		4.34	
Tuckerton.....	Coast.....	T. .54		.61	.05		.04							.77			T.	.31				.65		.56				.08	.22	.17		.15		4.11
Vineland.....	Maurice.....	.57		.77	.12	.02								1.05			.35	.01				.51						.22	.31				3.93	
Woodbine.....	Coast.....																																	
Philadelphia, Pa..	Delaware.....	.22	.66		.17	.34	T.	.01		T.			.04	.41			.13	.16			.10	.57		.20	T.		.11	.04	.20		.56		3.92	
<i>The Sea Coast.</i>																																		
Asbury Park.....	Coast.....	1.13		.28										.38			.01	.39				.74		.12				.36			.66		4.07	
Atlantic City***.....	do.....	T. .45		.82	.03		.02	T.	T.				.02	.44			.08	.30				.19	.30	.21	T.			.15	.06	.18		.14	3.39	
Cape May City.....	do.....	.02	.04		.81	.06		T.						.29			T.	.48	T.			.15	.30				.04	.29	.42		T.		2.90	
Long Branch**.....	do.....	.12	.96		.25	.12		T.		T.				1.70			.16	.27				.02	1.39		.34			.07	.39	.19		.08	6.06	
Sandy Hook***.....	do.....	.11	.47		.13	.13		.01						.62			.18	.27				.01	1.93		.43	T.		.03	.11	.41		.11	4.95	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
\* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.				Moisture.		Sun-shine
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine.
							Miles per hour.	Direction.	Date.			
Atlantic City.....	29.85	30.21	26	29.15	5	9	33	sw.	22	72	72	57.
Cape May City.....	29.88	30.23	26	29.37	5	10	36	.....	13	71	72	.....
Long Branch.....	.....	.....	.....	.....	.....	.....	66	nw.	23	.....	.....	.....
Newark.....	.....	.....	.....	.....	.....	.....	30	w.	6	76*	74†	54
New York, N. Y. ....	29.82	30.18	26	29.15	5	20	66	nw.	24	62	61	60
Philadelphia, Pa. ....	29.84	30.22	26	29.19	5	11	35	nw.	23	69	60	62
Ridgefield.....	29.83	30.20	26	29.16	5	.....	.....	.....	.....	.....	.....	.....
Sandy Hook.....	29.82	30.20	26	29.12	5	17	63	nw.	23	79	78	66
Trenton.....	29.82	30.20	26	29.13	5	14	44	w.	6	68	61	56



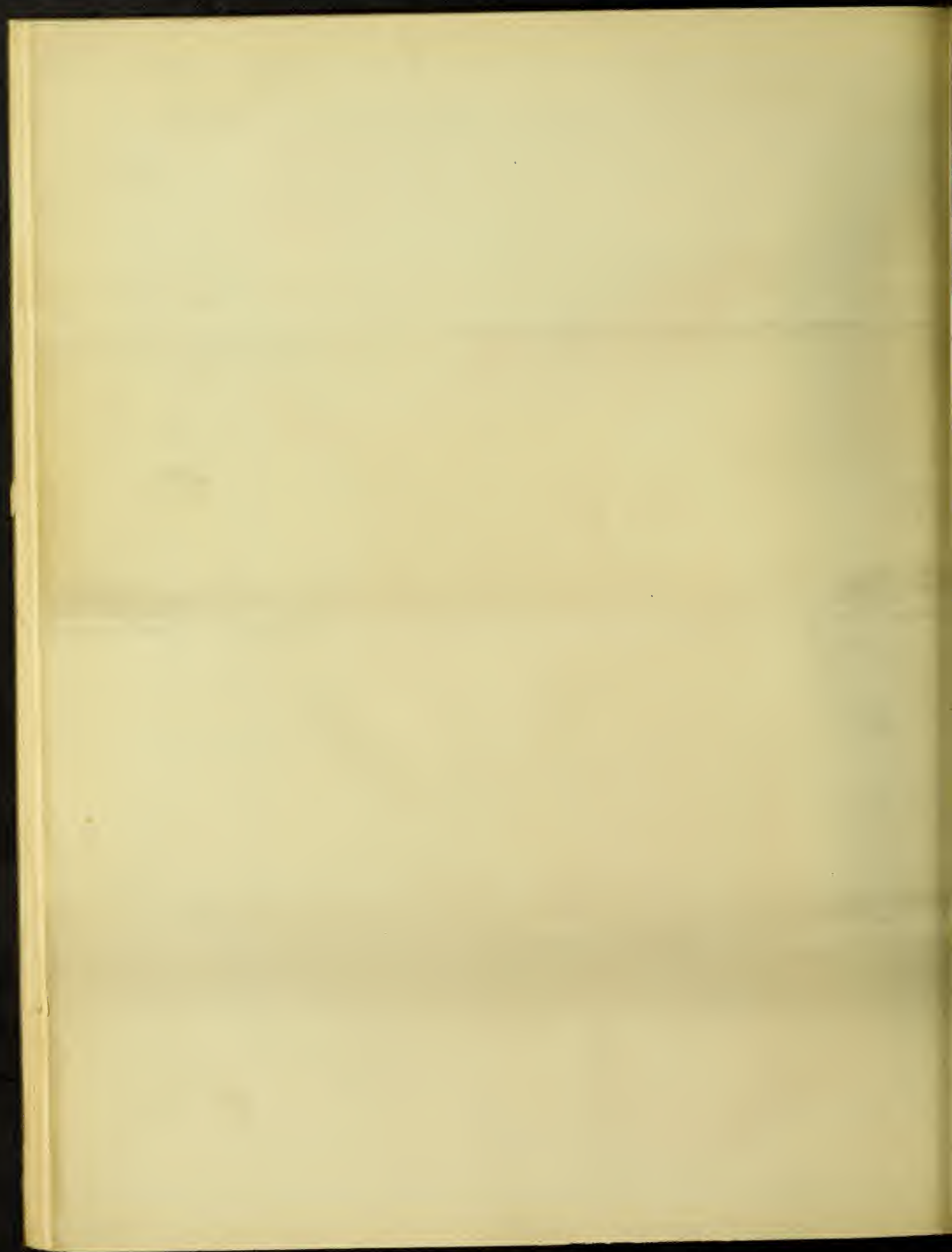
## Daily temperatures for April, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
The Highlands and Kittatinny Valley																																	
Belvidere.....	Maximum	67	47	64	55	48	44	45	44	40	55	57	56	52	55	62	55	47	68	72	72	60	80	74	60	62	63	52	60	61	68	58.2	
	Minimum	38	38	38	38	28	29	35	34	22	21	29	40	42	35	31	32	39	33	32	34	45	50	57	48	34	31	40	38	37	37	36.2	
Charlotteburg.....	Maximum	62	56	54	53	50	49	41	35	36	44	50	48	50	48	58	54	52	.....	.....	65	64	66	67	60	57	60	62	60	67	59	54.2 <sup>b</sup>	
	Minimum	37	36	37	35	34	25	30	21	17	19	28	25	38	32	31	42	37	26	29	28	43	45	43	43	32	32	32	38	40	45	33.3	
Dover.....	Maximum	60	47	61	47	45	41	42	37	41	54	49	54	52	58	56	49	65	67	70	58	76	71	55	58	63	49	59	58	67	.....	55.0	
	Minimum	40	38	38	37	36	27	29	23	21	21	29	29	36	34	32	41	37	30	34	34	43	40	46	40	33	35	40	40	40	45	34.9	
Layton.....	Maximum	68	49	61	51	47	40	45	37	41	54	54	43	55	52	60	58	51	66	69	70	53	75	69	58	.....	64	55	62	60	69	56.8 <sup>a</sup>	
	Minimum	34	38	29	35	35	27	30	22	17	18	28	27	36	35	30	42	38	32	28	28	45	50	46	31	28	43	40	39	32	.....	33.2 <sup>a</sup>	
Newton.....	Maximum	65	.....	58	55	45	40	42	35	39	47	51	50	54	50	58	55	48	62	65	68	61	71	68	55	53	60	55	58	57	65	54.8 <sup>a</sup>	
	Minimum	38	38	34	34	34	17	27	18	20	22	29	33	37	33	32	41	37	34	35	39	39	46	.....	32	30	33	40	37	33	42	33.2 <sup>a</sup>	
Phillipsburg.....	Maximum	66	46	62	46	48	43	43	38	43	53	54	59	56	52	62	60	46	67	69	72	62	79	74	58	60	62	46	61	62	68	57.2	
	Minimum	40	41	39	39	32	28	31	25	24	24	31	32	37	35	32	41	39	35	36	37	45	50	47	40	35	35	41	41	40	42	36.5	
Sussex.....	Maximum	65	.....	62	60	47	48	.....	44	42	53	53	55	55	52	59	54	52	67	69	73	60	76	72	69	59	65	.....	.....	.....	.....	58.8 <sup>f</sup>	
	Minimum	30	35	32	33	34	22	.....	13	.....	22	21	22	39	34	30	44	39	28	28	30	45	49	42	43	33	30	.....	.....	.....	.....	32.4 <sup>f</sup>	
The Red Sandstone Plain.																																	
Bergen Point.....	Maximum	65	47	67	52	54	44	48	40	43	44	57	53	58	55	62	65	.....	67	70	67	54	78	73	59	61	64	52	63	66	70	58.6 <sup>a</sup>	
	Minimum	41	38	40	39	39	38	33	27	27	27	29	34	38	32	32	.....	41	38	41	38	44	48	46	46	36	36	41	41	41	43	37.6 <sup>a</sup>	
Boonton§§.....	Maximum	59	48	61	46	48	42	45	37	42	51	55	55	55	52	57	56	48	65	67	70	60	76	71	55	57	64	45	60	60	65	55.7	
	Minimum	38	37	36	35	35	29	30	25	21	21	28	29	35	35	35	42	39	30	34	33	44	44	45	47	35	34	41	40	40	.....	35.1 <sup>a</sup>	
Elizabeth.....	Maximum	69	49	61	60	49	48	48	42	45	52	57	51	57	56	62	64	49	65	71	69	59	78	73	60	62	64	53	63	64	71	59.1	
	Minimum	41	39	39	40	38	30	36	27	24	24	28	31	47	32	32	47	40	32	35	39	44	52	47	48	33	36	42	42	39	43	37.6	
Flemington.....	Maximum	63	49	64	60	47	47	46	40	46	53	56	60	60	56	61	63	46	66	71	70	61	82	77	70	62	63	53	63	63	69	59.6	
	Minimum	38	39	36	39	39	30	36	27	24	25	31	31	38	35	35	45	40	33	39	37	45	53	47	48	36	36	42	42	40	40	37.5	
Highwood.....	Maximum	58	48	62	54	50	44	49	40	44	50	57	52	54	55	61	58	49	63	69	71	56	74	66	58	61	64	53	62	62	70	57.7	
	Minimum	42	39	34	38	38	30	35	27	22	20	24	29	43	32	30	43	43	32	33	34	45	50	46	46	35	32	42	41	40	40	36.1	
Jersey City.....	Maximum	56	50	66	55	53	46	49	41	45	51	56	52	53	57	62	63	48	67	74	68	56	79	70	60	63	63	53	63	64	71	58.5	
	Minimum	43	39	41	42	38	30	38	29	28	28	32	37	45	35	38	48	41	40	41	47	46	53	48	49	38	41	43	43	44	48	40.4	
Kearny.....	Maximum	64	47	64	60	50	45	46	34	45	.....	56	61	55	56	62	60	55	68	72	70	62	80	75	60	62	62	55	62	62	64	59.3 <sup>a</sup>	
	Minimum	42	44	44	39	38	31	32	27	28	27	32	36	39	36	39	47	47	37	42	45	52	18	44	37	41	43	42	43	47	.....	39.8	
Lambertville.....	Maximum	65	49	59	56	47	41	45	37	42	47	50	61	59	59	58	62	48	61	67	66	62	75	73	71	58	60	51	59	61	65	57.1	
	Minimum	39	40	34	40	30	28	36	27	23	21	28	28	40	32	30	46	39	32	35	35	44	50	48	52	35	32	42	41	41	39	36.2	
Little Falls.....	Maximum	58	48	63	48	49	45	44	40	46	56	57	55	55	57	62	59	49	66	74	71	61	79	77	58	63	67	47	66	66	72	58.6	
	Minimum	40	38	41	39	31	33	28	26	26	.....	33	.....	37	34	.....	41	34	37	39	.....	46	48	48	.....	37	.....	42	44	47	45	38.1 <sup>f</sup>	
Newark.....	Maximum	45	45	.....	52	51	47	45	37	41	.....	52	52	54	52	.....	59	58	61	.....	70	68	.....	67	64	60	62	62	63	62	69	56.4 <sup>f</sup>	
	Minimum	45	38	41	42	37	30	31	31	28	28	33	38	46	36	40	50	38	41	42	48	45	49	48	38	39	41	43	43	47	50	40.2	
New Brunswick.....	Maximum	71	46	61	61	48	46	46	41	43	49	53	61	61	53	60	63	48	63	68	58	77	78	76	59	61	55	61	61	69	.....	58.8	
	Minimum	41	39	41	40	38	29	36	27	25	29	30	33	44	35	46	40	33	41	41	44	54	48	46	46	36	37	41	42	43	46	38.6	
Paterson.....	Maximum	69	48	65	60	48	46	49	40	43	53	58	53	53	55	63	60	48	66	73	71	60	77	75	68	63	66	56	64	63	71	59.5	
	Minimum	46	39	37	41	38	30	37	27	25	27	30	32	45	36	35	45	40	34	38	42	45	50	47	48	37	39	44	41	43	47	38.8	
Plainfield.....	Maximum	59	48	64	50	48	44	47	39	44	51	54	59	58	58	61	62	47	63	70	69	58	78	75	58	59	62	52	61	63	69	57.7	
	Minimum	41	35	41	38	37	29	33	25	20	21	28	29	39	35	35	45	40	30	35	35	44	51	45	47	46	36	35	42	41	38	.....	36.0 <sup>a</sup>
Ridgefield.....	Maximum	55	47	62	47	50	44	46	39	43	50	54	52	53	53	62	58	47	64	69	69	58	76	64	56	60	63	45	62	60	63	55.9	
	Minimum	38	37	37	37	38	30	32	27	23	24	29	32	37	33	35	40	40	33	36	40	45	48	46	40	36	36	41	41	39	43	36.4	
Somerville.....	Maximum	70	50	65	62	48	47	48	42	45	53	57	60	61	56	62	62	50	67	71	72	63	80	77	62	63	60	64	63	72	.....	60.9	











U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

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# CLIMATOLOGICAL DATA

## NEW JERSEY SECTION

MAY, 1920.

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BY

G. HAROLD NOYES

METEOROLOGIST

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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
JUNE 21, 1920.

Departure of the Mean Temperature from the Normal, May, 1920.



Shaded portions show excess (+).  
Unshaded portions show deficiency (-).  
Lines show amount of excess or deficiency.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV.

TRENTON, N. J., MAY, 1920.

No. 5.

## GENERAL SUMMARY.

The weather during May was disappointing in that it was cool, and that there were but few warm days that were also clear. Warmth was deficient practically without cessation through the 18th, but thereafter there was a fair share of warm and pleasant weather, except for cloudy and cool conditions, with raw easterly winds on the 23d and 24th. It was one of the four coldest Mays in the past 35 years.

Starting with a deficiency in ground heat, it was an unfavorable month for seed germination and crop growth; the humidity was low and the soil was dry and cold. This, following an unfavorable winter, afforded an unpleasant aspect for the opening of the active agricultural year. There was adequate sunshine, and no dangerously late frosts, but the retarding effects of cool nights could not be overcome. Five clear and warm days at the close of the month were notably low in humidity, and were very agreeable for out-of-door interests.

An interesting series of some 12 rainy Fridays in succession, ended on the 21st; a fact of no material import, but upon which there was general comment.

No storm warnings were displayed during the month.

## TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 40 stations, was 57.4°, which was 3.0° below the normal. The highest temperature was 89° at Inlaystown on the 28th, and the lowest, 25° at Culvers Lake on the 5th and 6th. The highest monthly mean temperature was 60.3° at Vineland, and the lowest mean, 53.2° at Long Branch. The greatest daily range of temperature was 47° at Inlaystown on the 17th.

The temperature departure from the normal for the year 1920 to date, by sections is: The Highlands, -2.7°; Red Sandstone Plain, -2.1°; Southern Interior, -2.0°; Sea Coast, -2.2°.

## PRECIPITATION.

The average total rainfall of the State, as deduced from observations of 45 stations, was 3.00 inches, which was 0.83 inch less than the normal. The greatest monthly amount was 5.23 inches at Tuckerton, and the least, 1.61 inches at Atlantic City. The greatest amount accumulated in any 24 consecutive hours was 2.67 inches at Tuckerton on the 21st. The average number of days on which .01 inch or more of rain fell was 10, which was one less than the normal. There was a trace of snow at Culvers Lake on the 4th. The accumulated precipitation departure from the normal for the year 1920 to date, by sections is: The Highlands, -0.85 inch; Red Sandstone Plain, -0.21 inch; Southern Interior, -1.44 inches; Sea Coast, -1.77 inches.

## WIND.

The prevailing direction was from the northeast, with an approximate velocity of 10 miles per hour, which was slightly be-

low the normal. The highest velocity, sustained for 5 consecutive minutes, was 48 miles per hour from the northwest on the 21st at Long Branch. High winds were also noted on the 1st, 4th, 22d and 23d.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was three more than the normal; partly cloudy, 8, or two less than the normal; cloudy, 8, or one less than the normal. The approximate percentage of possible sunshine was 63, and was somewhat above the normal.

## MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.07 inches, which was 0.08 inch above the normal. The highest reading was 30.54 inches at Cape May City on the 17th, and the lowest, 29.60 inches at Atlantic City and Sandy Hook on the 1st.

The mean stage of the Delaware River at Phillipsburg was 3.5 feet, and the highest stage, 4.6 feet on the 1st and 2d. At Trenton the mean daily stage was 2.4 feet, which was 0.3 foot below the normal; the highest stage was 3.3 feet on the 1st.

Killing frosts were recorded in most portions of the State on the 3d, 5th and 6th, and light to heavy frosts as late as the 17th. Thunderstorms occurred in some portions of the State on the 1st, 4th, 10th, 11th, 21st and 22d. Hail occurred in Morris County on the 4th, and quite generally throughout the State on the 21st. No material damage was reported. Solar halos were observed on the 6th, 7th, 11th, 12th, 18th and 19th. Fog was observed on the 5th, 20th, 21st, 28th and 31st. Light haze prevailed over portions of the State on the 10th, 11th, 19th, 22d, 25th, 27th and 30th.

## COMPARATIVE DATA FOR MAY.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	57.3	90	29	2.74	5.20	1.18	.....	.....	.....	.....
1886.....	58.8	87	36	6.07	8.46	4.15	.....	.....	.....	.....
1887.....	63.3	94	35	1.37	3.82	0.08	.....	.....	9	6
1888.....	58.6	90	26	4.92	6.48	3.00	.....	.....	18	16
1889.....	62.3	94	32	4.09	6.60	2.43	.....	.....	11	12
1890.....	60.7	87	33	4.24	7.17	2.60	.....	.....	11	12
1891.....	59.5	93	28	2.97	5.39	1.78	9	11	11	9
1892.....	60.1	90	30	5.04	6.52	3.26	8	13	10	13
1893.....	59.4	95	29	4.07	6.38	2.55	13	8	10	10
1894.....	61.4	93	30	7.72	15.61	3.57	11	9	11	13
1895.....	60.9	102	28	2.85	3.95	1.66	12	12	7	8
1896.....	65.3	98	29	3.21	4.54	1.62	10	12	9	10
1897.....	60.6	87	29	5.68	9.11	1.71	11	12	8	12
1898.....	58.5	93	29	7.00	9.26	3.92	8	8	15	18
1899.....	61.1	94	29	1.92	3.15	1.15	12	12	7	9
1900.....	60.9	98	26	4.71	7.33	2.53	13	7	11	10
1901.....	58.6	90	29	5.60	8.13	3.10	9	9	13	16
1902.....	60.3	95	29	2.04	4.63	1.11	15	11	5	7
1903.....	62.7	98	21	0.59	1.32	0.08	16	10	5	4
1904.....	62.8	97	31	2.60	6.69	1.01	17	9	5	8
1905.....	61.4	89	22	1.71	3.94	0.42	12	11	8	8
1906.....	61.0	94	24	4.21	6.28	2.37	16	8	7	10
1907.....	55.4	91	22	5.05	8.09	2.51	12	9	10	12
1908.....	61.6	95	29	7.10	9.99	4.39	9	10	12	13
1909.....	60.0	91	27	2.30	4.84	0.79	10	11	10	9
1910.....	60.0	94	27	2.54	4.25	1.48	10	10	11	12
1911.....	64.5	99	22	1.37	3.84	0.31	14	11	6	7
1912.....	62.0	92	31	4.09	6.47	2.79	11	11	9	11
1913.....	60.3	94	25	3.45	4.86	2.53	15	7	9	9
1914.....	63.1	98	30	2.93	5.09	0.95	14	9	7	10
1915.....	58.1	88	30	3.82	6.15	2.00	13	7	11	13
1916.....	61.1	90	32	3.48	5.27	2.14	12	11	8	12
1917.....	54.0	90	22	3.83	6.83	2.08	10	10	11	11
1918.....	64.6	93	31	4.94	7.59	2.74	14	10	7	12
1919.....	60.9	95	31	4.98	7.68	3.06	14	6	11	12
1920.....	57.4	89	25	3.00	5.23	1.61	15	8	8	10



## Climatological data for May, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere.....	Warren.....	289	29	58.0	-2.7	86	23	31	5	37	3.29	-0.60	0.70	0	8	25	3	3	.....	Samuel J. Hixson.
Charlotteburg.....	Passaic.....	719	28	53.7 <sup>b</sup>	-3.6	78	29	26	6	38	3.01	-1.79	1.10	0	7	.....	.....	.....	w.	George S. Briggs.
Culvers Lake.....	Sussex.....	848	19	.....	.....	.....	.....	25	5†	.....	3.34	-0.16	1.00	T.	10	19	7	5	.....	Brice E. Riker.
Dover.....	Morris.....	600	36	56.2	-2.4	86	28	32	5†	38	3.18	-0.96	1.36	0	10	6	18	7	.....	William C. Harris.
Layton.....	Sussex.....	480	20	56.2	-1.7	88	28	26	5	42	4.04	+0.71	2.05	0	10	19	7	5	w.	A. M. Depue.
Newton.....	Sussex.....	769	39	56.8	-2.5	83	28	33	2†	29	3.81	-0.33	1.55	0	9	17	9	5	w.	Irring G. Kern.
Phillipsburg.....	Warren.....	363	38	58.6	-2.7	88	28	33	5	37	2.47	-1.58	1.10	0	9	19	7	5	w.	D. Wilson Smith.
Sussex.....	Sussex.....	442	29	57.2 <sup>d</sup>	-2.7	89	28	27	5	43	3.18	-0.73	1.10	0	9	.....	.....	.....	nw.	Rev. W. August George.
Means and extremes.....				56.7	-2.6	89	28	25	5†	43	3.29	-0.68	2.05	0	9	18	8	5	w.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point.....	Hudson.....	37	23	57.0	-2.7	83	29†	36	6	32	3.41	-0.57	0.83	0	10	7	19	5	se.	William H. Mitchell.
Boonton.....	Morris.....	400	30	56.0	.....	83	28	30	6	39	2.71	-1.54	0.65	0	10	.....	.....	.....	sw.	J. W. Demmers.
Chatham.....	Morris.....	330	18	.....	.....	.....	.....	.....	.....	.....	2.67	-1.25	0.49	0	10	18	6	7	.....	Paul Molitor, Sr.
Elizabeth.....	Union.....	45	41	57.4	-4.8	85	28	32	5†	38	3.28	-0.64	1.03	0	13	16	9	6	ne.	L. B. Bonnett.
Flemington.....	Hunterdon.....	140	31	58.7	-1.2	84	28	32	6	38	2.84	-1.45	0.73	0	10	21	4	6	sw.	Hiram E. Deats.
Highwood.....	Bergen.....	90	32	56.5	-3.2	82	28	31	5	37	3.05	-0.79	0.65	0	12	12	8	11	n.	Charles J. Bates.
Jersey City.....	Hudson.....	10	21	58.8	-2.3	84	29	40	2†	30	3.35	+0.17	1.27	0	12	9	16	6	sw.	S. K. Pearson, Jr.
Kearny.....	Hudson.....	.....	.....	59.9	.....	87	29	39	2	33	2.19	.....	0.60	0	6	2	18	11	s.	Wm. J. Chandler, M. D.
Lambertville.....	Hunterdon.....	80	33	56.3	-5.4	81	28	32	6	33	2.98	-1.09	0.96	0	7	15	9	7	ne.	Thomas R. Hunt.
Little Falls.....	Passaic.....	180	51†	60.0 <sup>a</sup>	.....	87	29	35	6	35	3.62	-1.14	1.30	0	12	16	6	9	e.	Montclair Water Co.
Newark.....	Essex.....	159	78	59.5	-1.3	83	28†	42	6	27	3.34	-0.70	1.13	0	11	12	8	11	e.	Prof. William Wiener.
New Brunswick.....	Middlesex.....	110	67	57.8	-2.8	87	30	34	3	37	3.56	-0.35	0.91	0	13	17	8	6	sw.	N. J. Experiment Station.
New Milford.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hackensack Water Co.
Paterson.....	Passaic.....	80	49	59.8	-1.5	88	28	36	6	37	2.75	-1.74	0.75	0	11	7	4	20	nw.	Marion T. Probert.
Plainfield.....	Somerset.....	100	33	56.8	-3.5	84	28	31	6	36	2.99	-0.84	0.95	0	12	10	16	5	e.	E. D. Pearson.
Pompton Plains.....	Morris.....	195	18	.....	.....	.....	.....	.....	.....	.....	3.09	-1.27	0.91	0	9	.....	.....	.....	.....	M. S. Taylor
Ridgefield.....	Bergen.....	70	5	56.6	.....	82	28	36	5†	33	2.53	.....	0.65	0	13	15	10	6	ne.	George P. Kirsten.
Somerville.....	Somerset.....	60	38	58.8	-1.3	86	28	33	5†	38	2.64	-1.48	0.56	0	9	17	7	7	n.	Peter V. D. Hardcastle.
South Orange.....	Essex.....	200	50	57.4	-2.6	81	28	37	6	31	3.51	+0.05	1.20	0	14	15	9	7	n.	Wm. H. Meeder.
Woodcliff Lake.....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....		365	50	57.8	-1.5	78	29	41	3	24	2.88	-0.30	0.98	0	12	9	12	10	s.	U. S. Weather Bureau.
Means and extremes.....				58.0	-2.7	88	28	30	6	39	3.03	-0.91	1.30	0	11	13	10	8	sw.	
<i>The Southern Interior.</i>																				
Bridgeton.....	Cumberland.....	30	39	59.5	-4.5	87	11	33	6	38	2.77	-1.16	1.20	0	6	20	5	6	ne.	Henry A. Jorden.
Burlington.....	Burlington.....	12	34	59.8	-2.3	88	28	34	6	36	3.51	-0.72	1.05	0	8	25	2	4	sw.	D. S. B. McCoy.
Camp Dix.....	Burlington.....	.....	2	57.2	.....	84	28	33	6	37	3.31	.....	0.94	0	15	6	2	23	sw.	U. S. Army.
Clayton.....	Gloucester.....	126	28	57.2 <sup>b</sup>	-4.7	87	28	31	6	39	2.47	-0.79	1.08	0	5	20	8	3	s.	Marvin Porch.
Hammonton.....	Atlantic.....	103	18	.....	.....	.....	.....	.....	.....	.....	2.07	-1.95	0.69	0	6	24	3	4	nw.	G. H. Parkhurst.
Hightstown.....	Mercer.....	120	27	57.8	-3.3	84	28	34	6	38	3.39	-0.43	0.95	0	9	18	7	6	ne.	E. H. Savige, Jr.
Imlaystown.....	Monmouth.....	185	31	57.7 <sup>b</sup>	-4.5	89	28	30	3	47	3.35	-0.54	1.00	0	10	22	4	5	se.	Wm. R. Hendrickson.
Indian Mills.....	Burlington.....	76	31	57.8	-4.2	87	28	30	3	40	3.15	-0.89	1.01	0	8	15	9	7	ne.	James M. Armstrong.
Lakewood.....	Ocean.....	54	17	55.8	-4.7	82	29	30	6	37	3.94	+0.08	1.02	0	11	13	9	9	ne.	R. W. Holman.
Moorestown.....	Burlington.....	75	58	59.0 <sup>d</sup>	-2.1	80	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	David S. Haines.
Northfield.....	Atlantic.....	25	13	.....	.....	.....	.....	.....	.....	.....	1.86	-1.46	0.72	0	6	.....	.....	.....	.....	William L. Flick.
Pleasantville.....	Atlantic.....	26	22	.....	.....	.....	.....	.....	.....	.....	1.79	-1.57	0.71	0	6	21	2	8	.....	Lincoln Van Gilder.
Trenton.....	Mercer.....	190	49	58.0	-3.1	83	28	38	2	30	2.66	-0.86	0.94	0	10	10	10	11	s.	U. S. Weather Bureau.
Tuckerton.....	Ocean.....	23	27	55.9	-3.8	85	10	29	5	38	5.23	+1.80	2.67	0	9	13	10	8	.....	Frank R. Austin.
Vineland.....	Cumberland.....	109	52	60.3 <sup>b</sup>	-1.9	86	29	34	6	35	2.31	-1.46	0.84	0	6	16	10	5	sw.	H. C. Himes.
Woodbine.....	Cape May.....	43	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jos. H. Cohen.
Philadelphia, Pa.....		117	50	60.4	-1.8	82	28	42	3	28	2.15	-1.05	0.83	0	9	13	6	12	s.	U. S. Weather Bureau.
Means and extremes.....				58.0	-3.6	89	28	29	5	40	2.99	-0.77	2.67	0	8	17	6	8	ne.	
<i>The Sea Coast.</i>																				
Asbury Park.....	Monmouth.....	22	31	55.6	-3.1	80	10†	38	3†	31	3.41	-0.30	0.90	0	11	14	10	7	n.	Information Bureau.
Atlantic City.....	Atlantic.....	16	47	54.6	-2.9	77	22	38	6	26	1.61	-1.39	0.68	0	7	13	9	9	nw.	U. S. Weather Bureau.
Cape May City.....	Cape May.....	17	36	56.3	-2.4	78	22	41	6	23	1.80	-1.19	0.66	0	8	14	4	13	ne.	U. S. Weather Bureau.
Long Branch.....	Monmouth.....	25	13	53.2	-5.4	80	10	34	6	29	3.57	0.00	0.87	0	12	11	14	6	ne.	William D. Martin, Jr.
Sandy Hook.....	Monmouth.....	22	22	56.0	-2.8	77	22	41	6	24	1.86	-2.12	0.46	0	15	8	14	9	se.	U. S. Weather Bureau.
Means and extremes.....				55.1	-3.3	80	10†	34	6	31	2.45	-1.00	0.90	0	11	12	10	9	ne.	
For the State.....				57.4	-3.0	89	28	25	5†	47	3.00	-0.83	2.67	0	10	15	8	8	ne.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Hackensack; Ridgefield is Morsemere; Indian Mills is Atsion.



## Daily precipitation for May, 1920.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>The Highlands and Kittatinny Valley</i>																																	
Lyndere.....	Delaware.....	.32							.38			.40	.03	.58	.56							.32	.70										3.29
Charlotteburg.....	Passaic.....	.25							.31	T.	.35		.60	.06					T.			.41	1.10			T.							3.01
Olvers Lake.....	Delaware.....	.25			.02				.24	T.	.41	.01	.82	.05								1.00	.50		T.		.04						3.34
Over.....	Passaic.....	.10			.08				.30		.02	.35		*	.92							1.36			T.		.05						3.18
Lynton.....	Delaware.....	.29			.05				.28			.37	.02	.65	.03							2.05	.27				.03						4.04
Lynton.....	Delaware.....	.43			T.				.33	.02	T.	.12	.25	.67	.04							.40	1.55										3.81
Phillipsburg.....	do.....	.06						T.	.20			.40	.01	.43	.24							1.10			T.	.01	T.	.02					2.47
Sex.....	Hudson.....																																
<i>The Red Sandstone Plain.</i>																																	
Argen Point.....	Coast.....	.06		T.	T.				.83		.38	.07		.55	.28	.10						T.	.61	.42	T.	T.		.11					3.41
Lynton.....	Passaic.....	.22	T.		T.	T.			T.	.45		.33	.40	.07	.22								.35	.65			.01	.01					2.71
Lynton.....	do.....								.36		T.	.30	.36	.05	.33							.46	.49	.15			.12	.05					2.67
Elizabeth.....	Coast.....	.15		T.	T.				.80		.02	*	.17	.39	*	.53						T.	.40	.66			.04	.02	.10				3.28
Emington.....	Raritan.....	.17			.01			T.	.43		T.	.08	.17	.26	.29							.53	.73	T.	T.	T.	.17						2.84
Highwood.....	Hackensack.....	.27		T.	.02				.55		.05	.17	.12	.43	.41	.04						.28	.65	T.		.06	T.						3.05
<i>Seaside City**</i>																																	
Seaside City**.....	Coast.....	.18			.08			T.	.65			.05	.10	.35	.45	.14						.57	.70	T.	.03	T.	.05						3.35
Seaside City**.....	Coast.....			T.	T.				.50		T.	.11		.06	.60							.41	.52	T.	T.	T.							2.15
Seaside City**.....	Delaware.....	.50						T.	.96				.15		.56	T.						.59	T.			.07	.15						2.98
Seaside City**.....	Passaic.....	.23	T.	T.	T.				.36			.02	.30	.39	.07	.42						T.	.36	1.30	.02	.03	.12						3.62
Seaside City**.....	Coast.....	.11		T.	.02			T.	.70		T.	.26	.02	.48	.55							.02	1.13		.02	.03							3.34
Seaside City**.....	Raritan.....	.36	T.		.02				.91	.04	T.		.21	.28	.46	.09						T.	.72	.27	T.	.03	.05	.12					3.56
<i>Seaside City**</i>																																	
Seaside City**.....	Hackensack.....				T.				.43		T.	T.	.29	.46	.30	.02						.04	.26	.75		.03	.13						2.75
Seaside City**.....	Passaic.....	.04			.02				.54		T.	.09	.22	.33	.61							.05	.90	T.	T.	.05	.06	.08					2.99
Seaside City**.....	Raritan.....	.18							.47			.03	.34	.44	.06	.37						.29	.91	T.	T.								3.09
Seaside City**.....	Hackensack.....	.09		T.	.04				.65		.05		.20	.40	.35	.01						T.	.26	.43	T.	.01	.02	.02					2.53
Seaside City**.....	Raritan.....	.20						T.	.33			T.	.22	.25	.56	.02						.35	.56			T.	.15						2.64
<i>Seaside City**</i>																																	
Seaside City**.....	Rahway.....	.09		T.	.02				.68		.03	.21	.02	.42	.51						.03		.20	.07	T.	.06	.09	.08					3.51
Seaside City**.....	Hackensack.....								.63		.01	.15		.35	.49	T.						T.	.98	.04	.01	T.	.01	.05					2.88
Seaside City**.....	Coast.....	.08			.08			T.																									
<i>The Southern Interior.</i>																																	
Seaside City**.....	Coast.....								1.20				.90		.20							.25				.10	.12						2.77
Seaside City**.....	Delaware.....	1.05						*	.88			T.	.24	.75	.32								.19				.08						3.51
Seaside City**.....	do.....	.03		.08	.02			.17	.57		T.	.28	.94	.18	.34							.08	.38	.04	.06	.03	.11						3.31
Seaside City**.....	Maurice.....	.23							1.08				.21	.81									.14										2.47
Seaside City**.....	Mullica.....								.85				.22	.69	.17							*	.14										2.07
Seaside City**.....	Raritan.....	.92			.01			.01	.95				.15	.50	.45	T.						T.	.30	T.		T.	.10						3.39
<i>Seaside City**</i>																																	
Seaside City**.....	Delaware.....	1.00			.05			.02	.73	.02			.17	.66	.39								.27				.04						3.35
Seaside City**.....	Mullica.....	.28			T.				1.01			T.	.34	.75	.17							.07	.32				.21						3.15
Seaside City**.....	Metedeconk.....	.98			.02				.60	.05		T.	.25	.02	.30						T.	T.	.33	.17	T.	.02	.20						3.94
Seaside City**.....	Delaware.....								1.02				.26	.86	.23							T.	.22	T.			.11						1.86
Seaside City**.....	Coast.....	.15			T.				.61				.72	.16								.12			T.		.10						1.79
Seaside City**.....	Coast.....				T.				.65				.71	.16								.14		.02	T.		.11						
<i>Seaside City**</i>																																	
Seaside City**.....	Delaware.....	.44		T.	T.			.01	.76		T.	.11	.17	.36	.39							.38		T.	.01	T.	.03						2.66
Seaside City**.....	Coast.....	.15						.38	.86				.13		.80							2.67	.05			.16							5.23
Seaside City**.....	Maurice.....	.30							.84					.81	.23							.05					.08						2.81
Seaside City**.....	Coast.....																																
Seaside City**.....	Philadelphia, Pa.	.09		T.	T.			T.	.53			.13	.38	.32	.16							.14		T.	T.	.04	.12						2.15
<i>The Sea Coast.</i>																																	
Seaside City**.....	Coast.....				.08				.68			.20		.65	.50						.03	.18	.90		.06		.10						3.41
Seaside City**.....	Atlantic City***	T.			T.			T.	.49			T.	.20	.48	.14							.22		T.	T.	.01	.07						1.61
Seaside City**.....	do.....	.26			T.			T.	.53			T.	.66	.12								.05		.01	T.	.09							1.80
Seaside City**.....	do.....	.33			T.			.09	.93			T.	.16	.07	.17	T.						.87	.01	.06	.01		.17						3.57
Seaside City**.....	do.....	.11		.01	.01			T.	.41	.01	.02	.12	.01	.26	.27	T.						.46	.05	.02		.02	.08						1.86

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.

\* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.			Moisture.		Sun- shine	
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine
							Miles per hour.	Direction.	Date.			
Atlantic City.....	30.08	30.50	17	29.60	1	8	28	ne.	23	75	77	64
Atlantic City.....	30.10	30.54	17	29.75	13	9	36	nw.	1	74	76	.....
Atlantic City.....							48	nw.	21			
Atlantic City.....										70*	63†	53
Atlantic City.....	30.06	30.48	17	29.63	1	14	51	nw.	1	66	64	73
Atlantic City.....	30.08	30.51	17	29.62	1	10	31	n.	1	64	55	67
Atlantic City.....	30.06	30.48	17	29.62	1							
Atlantic City.....	30.07	30.48	17	29.60	1	13	38	n.	22	80	78	72
Atlantic City.....	30.06	30.49	16	29.62	1	10	37	n.	4	68	61	63



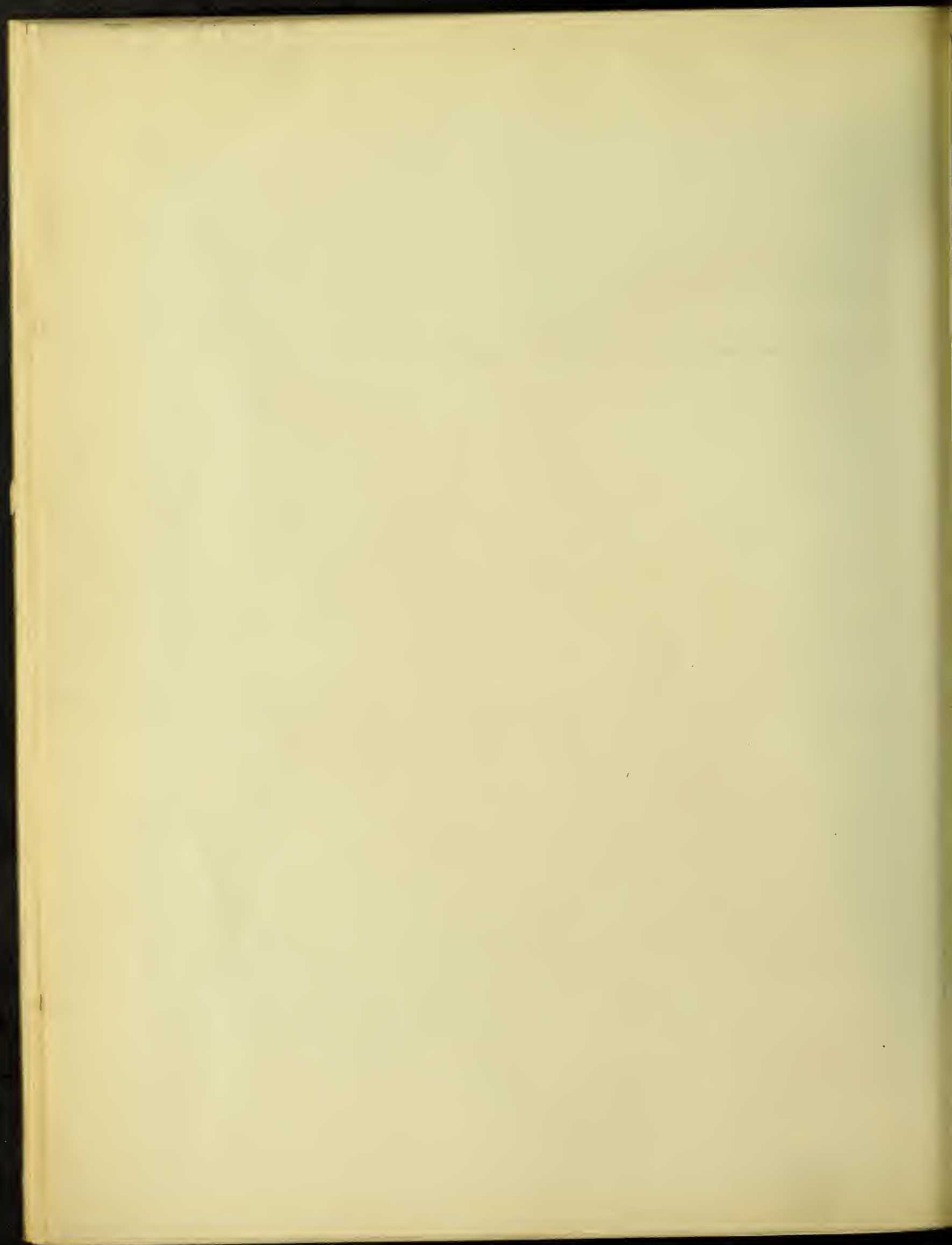
## Daily temperatures for May, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
The Highlands and Kittatinny Valley																																		
Belvidere.....	Maximum ...	61	56	61	63	65	69	56	72	79	72	72	57	60	63	71	73	74	78	75	76	80	69	59	72	78	82	86	83	79	79	70.9 <sup>a</sup>		
	Minimum ...	43	35	34	41	31	33	40	47	37	48	47	45	48	45	39	34	40	41	50	56	57	51	49	51	52	54	52	51	52	51	47	45.2	
Charlotteburg.....	Maximum ...	58	54	55	54	58	65	61	65	70	68	67	64	64	41	38	33	39	36	38	71	70	64	69	74	76	77	78	78	78	77	66.4 <sup>a</sup>		
	Minimum ...	41	33	35	38	29	26	38	44	35	43	41	41	41	38	33	39	36	38	71	70	64	69	74	76	77	78	78	78	77	67.9			
Dover.....	Maximum ...	58	53	59	59	61	69	61	52	70	78	67	69	56	51	64	70	73	71	76	74	71	80	64	56	70	73	77	86	82	77	77	67.9	
	Minimum ...	43	34	36	39	32	32	41	47	38	46	46	44	46	46	38	38	39	43	45	56	55	53	51	49	51	55	45	48	52	46	43	44.4	
Layton.....	Maximum ...	60	55	65	55	65	71	68	58	69	79	66	69	60	60	58	41	72	73	75	74	75	79	70	61	72	79	83	88	80	79	76	70.2	
	Minimum ...	42	31	29	39	26	29	39	44	36	43	42	36	45	43	45	30	34	37	45	55	55	53	53	51	52	50	45	48	45	44	44	42.3	
Newton.....	Maximum ...	56	54	57	56	58	67	66	60	67	76	65	65	63	64	60	66	70	69	74	73	73	78	69	63	67	73	79	83	79	75	75	67.7	
	Minimum ...	40	33	36	40	33	37	43	45	39	49	46	42	46	45	40	38	44	51	57	57	55	51	50	52	55	50	54	52	51	49	46.0 <sup>a</sup>		
Phillipsburg.....	Maximum ...	60	54	61	60	64	70	68	56	72	79	73	70	56	58	63	72	74	76	78	77	79	80	70	59	72	77	84	88	82	82	81	70.8	
	Minimum ...	42	35	35	42	33	35	42	47	40	52	50	47	48	43	40	39	41	43	51	58	55	55	54	50	52	55	49	51	54	52	49	46.4	
Sussex.....	Maximum ...	61	60	61	58	68	72	72	67	69	79	67	68	68	62	73	75	75	78	78	76	79	70	68	74	79	89	84	82	82	82	82	42.4 <sup>a</sup>	
	Minimum ...	38	33	33	38	27	40	33	44	36	44	43	43	42	38	30	35	32	44	56	53	53	52	52	53	52	49	50	45	45	45	45	42.4 <sup>a</sup>	
The Red Sandstone Plain.																																		
Bergen Point.....	Maximum ...	63	51	58	60	60	69	61	61	71	80	66	68	60	52	65	67	74	67	73	75	68	79	63	59	72	74	75	80	83	83	72	68.0	
	Minimum ...	44	38	38	41	40	36	43	45	45	50	40	45	47	45	39	40	42	42	49	55	51	54	51	49	51	55	50	49	55	60	50	46.1	
Boonton§§.....	Maximum ...	58	54	59	57	62	69	67	59	69	76	68	71	57	54	62	71	71	70	75	73	72	79	63	59	72	74	75	80	83	82	76	68.7	
	Minimum ...	43	32	35	40	38	30	42	44	38	45	43	43	46	45	40	37	39	39	43	52	50	53	49	50	53	44	45	49	45	43	43.2 <sup>a</sup>		
Elizabeth.....	Maximum ...	63	59	62	63	61	70	71	62	73	80	68	71	59	55	66	71	75	73	74	75	69	83	61	60	73	75	78	85	84	78	75	70.1	
	Minimum ...	45	36	34	41	32	32	39	49	41	48	49	47	48	44	37	36	39	39	47	54	55	54	50	49	51	52	46	48	49	48	46	41.7	
Flemington.....	Maximum ...	63	57	62	61	63	70	67	58	74	79	73	71	64	58	65	72	73	71	77	75	73	74	69	76	64	59	70	74	78	82	76	68.3	
	Minimum ...	42	35	37	41	34	32	38	49	38	54	49	49	48	47	41	41	40	40	48	56	59	55	53	50	52	57	52	47	49	47	48	44.7 <sup>a</sup>	
Highwood.....	Maximum ...	61	57	58	58	62	70	70	56	71	79	68	70	58	54	62	70	75	72	73	74	69	82	64	60	74	77	79	77	84	77	74	69.7	
	Minimum ...	44	38	32	38	31	34	40	47	47	50	47	44	47	47	42	44	48	48	52	57	57	58	52	50	54	57	55	57	55	55	49.9		
Jersey City.....	Maximum ...	63	59	61	63	61	70	68	60	75	80	72	69	60	56	66	70	75	70	73	74	69	82	64	60	74	77	79	77	84	77	74	70.2	
	Minimum ...	45	40	40	45	40	40	47	48	55	54	53	50	48	47	42	44	48	48	52	57	57	58	52	50	54	57	55	57	55	53	49.6		
Kearny.....	Maximum ...	62	56	60	56	66	72	67	56	72	79	68	69	60	55	65	76	72	74	73	73	73	69	71	60	77	82	81	83	87	77	73	70.2	
	Minimum ...	44	39	40	46	40	42	47	52	42	55	52	49	48	48	42	43	50	49	51	63	59	57	55	50	53	57	52	54	55	51	53	49.6	
Lambertville.....	Maximum ...	58	54	59	59	59	65	64	58	68	77	67	67	65	53	62	67	70	73	71	73	76	74	58	69	71	74	76	81	80	82	72	71.8	
	Minimum ...	44	33	33	42	33	32	40	49	38	49	49	47	47	45	35	34	40	39	52	55	56	55	51	50	51	55	46	48	48	50	48	46.2	
Little Falls.....	Maximum ...	65	58	60	63	68	74	60	72	80	73	63	62	67	55	63	70	74	69	72	73	69	79	64	58	72	74	76	83	83	74	72	67.7	
	Minimum ...	45	40	39	42	39	35	47	51	40	50	49	47	49	47	41	40	43	44	48	56	50	55	53	50	52	55	49	52	54	50	44	47.1	
Newark.....	Maximum ...	60	60	58	57	60	69	67	55	71	80	67	67	67	55	63	70	74	69	72	73	69	79	64	58	72	74	76	83	83	74	72	67.7	
	Minimum ...	46	43	44	45	44	42	49	51	47	56	55	51	51	44	44	49	50	53	56	59	58	56	52	53	54	58	56	58	53	57	51	69.4	
New Brunswick.....	Maximum ...	62	59	59	59	58	66	68	57	69	79	77	67	65	53	62	67	70	73	77	75	73	77	75	73	79	78	58	70	74	83	81	87	78
	Minimum ...	45	37	34	44	38	36	42	42	42	50	45	49	46	45	39	39	44	43	48	55	57	55	52	49	50	55	49	48	48	50	48	46.2	
Paterson.....	Maximum ...	61	58	59	61	64	73	70	62	74	81	70	68	62	55	64	69	72	72	77	74	71	80	65	58	71	75	77	84	82	74	79	69.0	
	Minimum ...	45	38	39	49	39	36	45	50	43	50	56	42	47	46	40	41	51	45	48	58	55	52	52	49	51	55	47	48	49	48	44	44.6	
Plainfield.....	Maximum ...	60	55	59	61	61	68	69	56	71	79	70	68	62	55	64	69	72	72	77	74	71	80	65	58	71	75	77	84	82	74	79	44.6	
	Minimum ...	44	36	34	40	34	31	39	48	40	45	48	47	47	43	40	39	38	40	45	52	53	56	52	49	51	55	47	48	49	48	44	44.6	
Ridgefield.....	Maximum ...	60	56	58	59	59	69	65	55	70	79	65	69	56	52	64	68	73	69	73	69	73	64	68	79	62	58	71	72	74	82	80	75	73
	Minimum ...	44	38	37	41	36	36	44	47	41	50	48	46	47	47	43	40	39	384															











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# CLIMATOLOGICAL DATA

## NEW JERSEY SECTION

JUNE, 1920.

BY

G. HAROLD NOYES

METEOROLOGIST



TRENTON, N. J.  
WEATHER BUREAU OFFICE  
JULY 21, 1920.



Departure of the Mean Temperature from the Normal, June, 1920.



Shaded portions show excess (+)  
Unshaded portions show deficiency (-)  
Lines show amount of excess or deficiency.



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., JUNE, 1920. No. 6.

## GENERAL SUMMARY.

June was a rainy month, with a fairly uniform frequency of occurrence over most of the State. Notably heavy falls were recorded from the 3d to 5th, on the 13th, 16th, 17th, 29th and 30th. Amounts in excess of 3 inches in 24 consecutive hours occurred at Bridgeton, Clayton, Indian Mills, Lakewood and Vineland, and over 4 inches at Long Branch. At Trenton 1.68 inches fell in 27 minutes on the 30th, which is a notably excessive rate. The only periods of the month that were generally dry were the 1st, 2d, 6th to 11th, and 26th to 28th. As a whole, the month will go on record as one of the rainiest, although not breaking the records of 1887, 1902 and 1903.

Temperatures and cloudiness occurred more nearly in accord with the usual course of June, although cool nights and lack of bright sunshine maintained crops in a continued backward state. A short three days of warmth the first of the month was followed by subnormal temperature until the 11th, when it again became warm but not bright and clear, until the 16th. Hereafter it was cool through the 25th, but from the 26th to the close of the month, day-time temperatures were generally in the 80's and 90's.

Wind squalls of some moment occurred with the thunderstorms of the 15th, 16th, 17th, 24th, 29th and 30th and in connection with the beating rain, grass and grain became lodged. Storm warnings were displayed on the 17th and 20th.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 40 stations, was 68.4°, which was 0.8° below the normal. The highest temperature was 98° at Inlaystown on the 29th, and the lowest 38° at Charlotteburg on the 8th. The highest monthly mean temperature was 72.4° at Vineland, and the lowest, 62.8° at Charlotteburg. The greatest daily range of temperature was 41° at Layton on the 11th. The temperature departure from the normal for the year 1920, to date, in sections is: The Highlands, -2.5°; Red Sandstone Plain, -1.9°; Southern Interior, -1.7°; The Sea Coast, -2.0°.

## PRECIPITATION.

The average total rainfall for the State, as deduced from observations of 46 stations, was 6.18 inches, which was 2.8 inches above the normal. The greatest monthly amount was 11.26 inches at Pleasantville, and the least, 3.12 inches at Phillipsburg. The greatest amount of rain in 24 consecutive hours was 9.09 inches at Long Branch on the 5th. The average number of days on which 0.01 inch or more rain fell was 12, which was more than the normal.

The precipitation accumulated departure from the normal for the year 1920 to date is: The Highlands, -0.05 inch; Red

Sandstone Plain, +1.41 inches; Southern Interior, +2.28 inches; The Sea Coast, +1.78 inches.

## WIND.

The prevailing wind direction for the month was from the southwest, with an approximate velocity of 9 miles per hour, which was about the normal. The highest velocity for the month, sustained for five consecutive minutes, was 78 miles per hour from the northwest on the 16th at Long Branch. High winds were also noted on the 7th, 17th, 24th, 29th and 30th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than the normal; partly cloudy, 9, which was 2 less than the normal; cloudy 8, which was 1 more than the normal. The approximate percentage of possible sunshine was 59, probably about the normal value.

## MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 2.5 feet, and the highest, 5.3 feet on the 19th. At Trenton the mean daily stage was 1.7 feet, which was 0.5 feet below the normal; The highest stage was 3.2 feet on the 20th.

The mean atmospheric pressure, reduced to sea level, was 29.97 inches, which was 0.01 inch below the normal. The highest reading was 30.35 inches at Cape May City on the 27th, and the lowest, 29.43 inches at Atlantic City on the 17th.

Thunderstorms occurred in some portions of the State on the 2d, 3d, 5th, 8th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 21st, 22d, 24th, 25th, 29th and 30th. Solar halos were observed on the 1st, 8th, 11th, 16th, 19th and 20th. Fog was observed on the 13th, 17th, 21st and 28th. Smoke was noted on the 18th and 24th.

## COMPARATIVE DATA FOR JUNE.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	68.7	97	39	1.79	8.37	0.72	.....	.....	.....	.....
1886.....	67.1	91	41	3.38	5.79	2.22	.....	.....	.....	.....
1887.....	68.2	97	42	6.77	10.29	4.21	.....	.....	.....	.....
1888.....	70.8	99	39	2.59	5.69	1.67	.....	.....	.....	.....
1889.....	69.9	91	40	3.73	6.75	2.39	.....	.....	.....	.....
1890.....	70.7	95	42	3.59	5.16	0.99	.....	.....	.....	.....
1891.....	69.7	102	38	2.92	6.71	1.24	11	13	6	10
1892.....	72.4	98	44	3.85	6.12	1.58	10	12	8	11
1893.....	69.7	103	40	2.95	7.02	0.46	10	11	9	8
1894.....	70.6	102	35	2.28	5.90	0.99	14	11	5	9
1895.....	71.7	103	39	3.24	5.99	0.93	11	11	8	10
1896.....	68.1	96	37	5.46	13.45	2.64	12	10	8	10
1897.....	66.1	95	35	3.38	5.50	2.12	10	13	7	10
1898.....	70.1	100	38	2.10	3.54	1.13	14	12	4	8
1899.....	72.3	103	38	2.50	4.34	1.01	15	10	5	7
1900.....	70.4	97	39	3.08	4.91	1.10	12	12	6	8
1901.....	70.0	103	35	1.57	4.36	0.73	18	8	4	5
1902.....	67.5	99	37	6.57	10.21	4.54	14	11	5	11
1903.....	64.0	92	37	7.68	15.02	2.39	6	10	14	15
1904.....	68.6	100	34	3.13	5.44	1.91	13	10	7	12
1905.....	68.3	96	35	3.43	8.71	1.67	11	12	7	10
1906.....	70.4	98	38	4.48	9.18	1.45	11	11	8	12
1907.....	64.7	96	31	4.41	6.85	3.15	12	10	8	10
1908.....	69.9	99	35	2.32	4.63	0.77	16	12	2	4
1909.....	70.0	99	36	3.26	5.70	1.71	9	10	11	12
1910.....	66.9	95	34	5.17	8.01	2.66	9	10	11	13
1911.....	68.9	97	40	5.36	10.11	2.84	9	12	9	14
1912.....	68.0	98	33	1.94	3.61	0.91	9	12	9	8
1913.....	69.1	98	31	1.80	3.76	0.68	19	8	3	5
1914.....	68.5	98	35	2.66	4.85	1.09	16	9	6	7
1915.....	67.0	95	36	3.12	6.51	1.40	13	10	7	11
1916.....	64.7	87	36	4.20	5.99	2.22	10	9	11	13
1917.....	68.9	95	40	4.27	7.14	2.80	13	10	7	12
1918.....	66.3	96	32	3.43	6.21	1.35	15	9	6	8
1919.....	69.5	99	37	3.16	3.58	0.37	16	7	7	8
1920.....	68.4	98	38	6.18	11.26	3.12	13	9	8	12



## Climatological data for June, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere.....	Warren.....	289	29	67.8	-1.2	94	11	46	8	35	4.02	-0.38	1.43	0	8	18	6	6	.....	Samuel J. Hixson.
Charlotteburg.....	Passaic.....	719	28	62.8 <sup>b</sup>	-2.7	85 <sup>a</sup>	11†	38	8	37	5.78	+1.52	1.92	0	9	14	12	4	sw.	George S. Briggs.
Culvers Lake††.....	Sussex.....	848	19	66.4	.....	93	29	44	5†	36	5.92	+2.08	1.92	0	15	18	6	6	e.	Brice E. Riker.
Dover.....	Morris.....	600	36	66.4	-0.8	93	29	44	8	36	4.83	+0.71	1.56	0	14	3	20	7	.....	William C. Harris.
Layton.....	Sussex.....	480	20	65.6	-0.7	93	11†	41	8	41	4.11	+0.69	2.16	0	13	12	6	12	w.	A. M. Depue.
Newton.....	Sussex.....	769	39	66.2	-1.5	90	29	49	5†	30	4.43	+0.64	1.44	0	14	14	10	6	w.	Irving G. Kern.
Phillipsburg.....	Warren.....	363	38	68.7	-0.9	95	11	47	8	36	3.12	-1.03	0.98	0	10	13	9	8	sw.	D. Wilson Smith.
Sussex.....	Sussex.....	442	29	66.8†	-0.8	94	11	42	4	.....	5.50	+1.77	1.65	0	11	.....	.....	.....	nw.	Rev. W. August George.
Means and extremes.....				66.3	-1.2	95	11	38	8	41	4.71	+0.80	2.16	0	12	13	10	7	w.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point††.....	Hudson.....	37	23	67.9 <sup>b</sup>	-0.9	93	29	48	5†	33	5.49	+1.54	1.95	0	9	5	22	3	se.	William H. Mitchell.
Boonton.....	Morris.....	400	30	66.2	.....	92	11	43	8	36	5.74	+2.00	1.02	0	11	21	3	6	sw.	J. W. Demmers.
Chatham.....	Morris.....	330	18	66.2	.....	92	11	43	8	36	4.31	+0.27	0.95	0	11	17	8	5	.....	Paul Molitor, Sr.
Elizabeth.....	Union.....	45	41	68.4	-2.8	95	29	48	8†	37	5.38	+1.78	1.65	0	11	12	11	7	sw.	L. B. Bonnett.
Flemington.....	Hunterdon.....	140	31	69.3	+0.2	95	29	48	8	34	4.92	+0.55	1.21	0	14	16	9	5	w.	Hiran E. Deats.
Highwood.....	Bergen.....	90	32	66.9	-1.4	90	11	46	8	33	5.72	+1.94	1.75	0	11	9	11	10	n.	Charles J. Bates.
Jersey City.....	Hudson.....	10	21	70.4	+0.4	94	11	52	5	31	6.04	+2.74	1.80	0	13	10	11	9	w.	S. K. Pearson, Jr.
Kearny.....	Hudson.....	10	21	69.6	.....	93	11	51	5†	32	4.69	.....	1.45	0	10	3	13	14	s.	Wm. J. Chandler, M. D.
Lambertville.....	Hunterdon.....	80	33	67.0 <sup>b</sup>	-3.3	92	11	47	1†	33	4.84	+0.56	1.87	0	11	.....	.....	.....	w.	Thomas R. Hunt.
Little Falls.....	Passaic.....	180	31	70.3	.....	97	11	49	8	38	4.24	-0.04	1.03	0	11	15	4	11	w.	Montclair Water Co.
Newark.....	Essex.....	159	78	69.6	-0.1	94	11†	51	5	30	9.31	+5.68	3.25	0	11	14	8	8	ne.	Prof. William Wiener.
New Brunswick.....	Middlesex.....	110	67	67.8	-1.8	91	11†	49	8	32	9.64	+5.87	2.23	0	12	16	10	4	ne.	N. J. Experiment Station.
New Milford.....	Bergen.....	80	49	70.0	-0.1	94	11	50	8	32	4.17	-0.15	1.51	0	11	4	2	24	sw.	Hackensack Water Co.
Paterson.....	Passaic.....	100	33	67.2	-2.1	92	11†	46	8	34	4.77	+0.64	1.49	0	14	10	11	9	sw.	Marion T. Probert.
Plainfield.....	Somerset.....	195	18	67.2	.....	92	11	46	.....	.....	5.76	+1.60	1.42	0	10	.....	.....	.....	sw.	E. D. Pearson.
Pompton Plains.....	Morris.....	195	18	67.2	.....	91	11	48	8	32	5.42	.....	1.12	0	11	4	2	24	sw.	M. S. Taylor.
Ridgefield.....	Bergen.....	70	5	67.2	.....	91	11	48	8	32	5.42	.....	1.12	0	12	14	8	8	sw.	George P. Kirsten.
Somerville.....	Somerset.....	60	38	69.2	0.0	95	29	48	8	36	5.19	+1.04	1.10	0	14	10	13	7	sw.	Peter V. D. Hardcastle.
South Orange.....	Essex.....	200	50	68.8	0.0	92	11	50	5	29	3.87	+0.31	1.40	0	11	12	12	6	w.	Wm. H. Meeder.
Woodcliff Lake.....	Bergen.....	365	50	67.6	-0.9	90	11	50	5	28	6.19	+2.93	1.97	0	13	6	16	8	sw.	Hackensack Water Co.
New York, N. Y.....				68.5	-1.0	97	11	43	8	38	5.53	+1.65	3.25	0	12	12	10	8	w.	U. S. Weather Bureau.
Means and extremes.....				68.5	-1.0	97	11	43	8	38	5.53	+1.65	3.25	0	12	12	10	8	w.	
<i>The Southern Interior.</i>																				
Bridgeton.....	Cumberland.....	30	39	71.4	-2.0	96	29	52	10	36	8.59	+4.82	3.40	0	11	20	7	3	sw.	Henry A. Jorden.
Burlington.....	Burlington.....	12	34	71.2	+0.5	97	29	51	10	34	5.87	+1.95	2.35	0	12	24	3	3	sw.	D. S. B. McCoy.
Camp Dix.....	Burlington.....	2	69.0	.....	92	11†	47	7	33	6.86	.....	2.23	0	14	3	3	24	sw.	U. S. Army.	
Clayton.....	Gloucester.....	126	28	69.0	-2.4	93	29	50	1†	39	6.32	+2.92	3.46	0	9	10	8	12	w.	Marvin Porch.
Hammononton.....	Atlantic.....	103	18	68.4	-0.8	94	29	47	10	35	9.79	+6.60	2.31	0	11	18	8	4	se.	G. H. Parkhurst.
Hightstown.....	Mercer.....	120	27	68.4	-0.8	94	29	47	10	35	9.79	+6.60	2.31	0	11	18	8	4	se.	E. H. Savige, Jr.
Indiantown.....	Monmouth.....	185	31	69.8 <sup>a</sup>	-1.0	98	29	48	8†	39	5.95	+1.97	1.90	0	15	13	10	7	sw.	Wm. R. Hendrickson.
Indian Mills.....	Burlington.....	76	31	69.2	-1.8	95	11†	46	10	39	7.44	+2.65	3.67	0	12	9	14	7	sw.	James M. Armstrong.
Lakewood.....	Ocean.....	54	17	68.4	+0.8	94	11	46	10	37	7.08	+3.41	3.10	0	13	14	7	9	sw.	R. W. Holman.
Moorestown.....	Burlington.....	75	58	71.0 <sup>a</sup>	+0.8	94	11†	52	1	34	5.04	+1.24	2.32	0	11	.....	.....	.....	nw.	Stokes Seed Farms Co.
Northfield.....	Atlantic.....	25	13	68.4	.....	94	11	46	10	37	8.37	+4.80	1.72	0	11	.....	.....	.....	.....	William L. Flick.
Pleasantville.....	Atlantic.....	26	22	68.4	.....	94	11	46	10	37	11.66	+8.07	3.52	0	14	17	7	6	.....	Lincoln Van Gilder.
Trenton.....	Mercer.....	190	49	69.0	-0.5	93	29	49	5	31	6.63	+3.14	2.52	0	12	6	14	10	sw.	U. S. Weather Bureau.
Tuckerton.....	Ocean.....	23	27	69.5	+0.5	94	11	45	10	34	10.23	+6.46	2.66	0	12	14	13	3	sw.	Frank R. Austin.
Vineland.....	Cumberland.....	109	52	72.4 <sup>a</sup>	+0.8	95	11	51	7†	34	7.52	+3.94	3.40	0	10	.....	.....	.....	w.	H. C. Himes.
Woodbine.....	Cape May.....	43	29	71.2	0.0	95	29	53	5	27	6.76	+3.46	2.34	0	13	8	12	10	sw.	Jos. H. Cohen.
Philadelphia, Pa.....		117	50	71.2	0.0	95	29	53	5	27	6.76	+3.46	2.34	0	13	8	12	10	sw.	U. S. Weather Bureau.
Means and extremes.....				69.9	-0.5	98	29	45	10	39	7.43	+3.72	3.67	0	12	14	8	8	sw.	
<i>The Sea Coast.</i>																				
Asbury Park.....	Monmouth.....	22	31	67.4	-0.8	92	11	52	10	32	5.97	+2.17	2.10	0	13	17	6	7	ne.	Information Bureau.
Atlantic City.....	Atlantic.....	16	47	67.5	+0.7	87	18	53	7	24	8.45	+5.42	2.93	0	12	11	13	6	sw.	U. S. Weather Bureau.
Cape May City.....	Cape May.....	17	36	69.2	+1.5	90	30	56	4	24	5.36	+2.32	1.06	0	13	11	11	8	s.	U. S. Weather Bureau.
Long Branch.....	Monmouth.....	25	13	66.2	-1.3	94	11	51	10	31	9.04	+5.14	4.09	0	9	11	14	5	sw.	William D. Martin, Jr.
Sandy Hook.....	Monmouth.....	22	22	67.4	-1.0	89	11	51	5	25	6.69	+2.72	2.77	0	13	6	15	9	sw.	U. S. Weather Bureau.
Means and extremes.....				67.5	-0.2	94	11	51	5†	32	7.10	+3.55	4.09	0	12	11	12	7	sw.	
For the State.....				68.4	-0.8	98	29	38	8	41	6.18	+2.38	4.09	0	12	13	9	8	sw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Hackensack; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily precipitation for June, 1920.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>the Highlands and Kittatinny Valley</i>																																	
idere.	Delaware				1.08								1.43					.68	.13		.40	.05			.14					.11		4.02	
lotteburg	Passaic				1.72		.28					1.25					.33	.70	.23	.20		T.		.75		T				.12		5.78	
ers Lake.	Delaware		.01	.02	1.92	.01		.12					.62			.02	1.60	.10	.25		.37	.56	.02		.02				.01	.29		5.92	
or	Passaic			*	*	1.58		.35					*	.36		.78	.78	.21			*	.30		.35			.01		T.	.11		4.83	
on.	Delaware		.12	.03	2.16	.06		T.					1.02			.03	1.73	.24	.05		.35	.03		.03						.56		4.11	
ton	Delaware				1.44	.06		.14					.54				.39	.72	.12		.33	T.	.03	.02					.44	.03		4.43	
ipsburg	do.		.02		T.	.98	T.						.29		.05	.08	.78	.03		T.	.50							T.	.34	.05		3.12	
ex	Hudson				1.65	.05		.24					.67			.01	.76	.67	.16		.31	.08								.90		5.50	
<i>the Red Sand- stone Plain.</i>																																	
en Point.	Coast			T	1.95			.03	.11				.32		T.	.48	T.					1.22	T		.22					.56	.60	5.49	
nton III	Passaic				1.02	.78			.41				.59	T.			.44	1.01	.11			.32	.04	T.	T.	.96				T.	.03	5.74	
ham II	do.			.95	.65			T.				T.	.12	.13			.47	.68	.07		.41	.03	T.	T						.71	.09	4.31	
beth	Coast			T.	1.65	.39		.03					.11			.26	.72	.12			.52				.35				T.	.39	.84	5.38	
ington	Raritan			T.	1.21	.22		T.					T.	.12	.19	.23	.19	.90	.07	.31	T.	.49	.10			.05			T.	.16	.65	4.92	
wood	Hackensack			T.	1.75	.07		.38	T				1.38			T.	.10	.52	.04			.36			T.	.07			T.	.76	.29	5.72	
y City**	Coast			T.	1.80	.10			.11				.87			.05	*	.50	.05			.50			*	1.44				.22	.40	6.04	
ny.	Coast			T.	1.45			*					.55			.02	.47	.02				.50			1.29					*	.39	4.69	
bertville.	Delaware			T.	*	1.87		.10					.18	.20		.13	*	1.30	.10			T.		T.					T.	.15	.81	4.84	
e Falls. III	Passaic			T.	1.03	.67		.34					.69				.03	.52	.07			.36	.03			.21				T.	.29	4.24	
ark**	Coast			.23	2.09			.34					.38	T.		.10	.51	.21			T.	.53		1.55				T.	3.25	.12		9.31	
Brunswick	Raritan			T.	1.69	.91		T.				.11	.45			1.76	.77	T.	.78	.25		.42	T.			.27				1.50	.73	9.64	
Milford	Hackensack																																
rson	Passaic				1.51	.11		.15					.62			.09	.08	.55	.05			.40	T.							.05	.56	4.17	
field.	Raritan			T.	1.49	.10		.07					.18		.08	.37	.66	.29	.03		.43	T.	T.	.44	.13				T.	.39	.11	4.77	
pton Plains I	Passaic				1.19	.34		.28					1.42	.04			T.	1.24	.12			.35		T.	.37						.41		5.76
efield	Hackensack			*	1.86			.31					.68			.15	T.	.54	.05		.44				.17				T.	1.12	.10	5.42	
erville	Raritan				1.10	.30		T.				.15	.82	.01	.02	.02	.07	.71	.30			.50	.01		.17	.58			T.	.60		5.19	
h Orange	Rahway			T	1.40	T		.11					.13	T.		.22	.51	.04	.04		.50		T.	*	.40				T.	.37	.15	3.87	
cliffe Lake	Hackensack																																
York, N. Y***	Coast			.07	1.94	.02		.11					.03	.84		T.	.02	.49	.07		T	.40			1.34				T.	.79	.07	6.19	
<i>the Southern Interior.</i>																																	
geton	Coast		.15	.48	3.40			.11			.22	.29	1.10			.16	.70				.50									1.48		8.59	
ington	Delaware				2.35	.02							.90			.13	.93	.28	.22			.44			.16	.24				*	.20	5.87	
p Dix	Delaware				.79	2.23		.04					.02	T.		.14	.76	.24			.38	.08	T.	.34	.08					.02	.50	1.24	6.86
ton.	Maurice			T.	3.46							.11	.03			.57	1.21	.10			T.	.59				.07				T.	.18	6.32	
monton	Mullica			*	2.31	.03		.11		T.	T.	1.28			1.87	.13	1.04	T.			.75				.42					1.85		9.79	
dstown	Raritan			T.	.65	.60		T.					.16	T.			.12	1.40				.52								.65		4.10	
ystown	Delaware			.01	1.90	.64					.03	.56	.05	.01	.07	.06	.86	.02			.35		.01	.03						1.35		5.95	
an Mills	Mullica			.13	3.67			.02		T.	.04	.04			.60	.92	.12				.33				.04				T.	1.48	.05	7.44	
wood	Metedeconk			.08	3.10	.45		T.		.35		.83		T.	.15		.65	.05			.43			.02	.04				T.	.90	.03	7.08	
restown	Delaware				2.32			.08				.09	.10		.14	.20	.80	.01				.30	.60								.40	5.04	
hfield	Coast		1.14	.99	1.18	T.		.01			.04	.87			.39		1.29				.72				.02					1.72		8.37	
santville.	Coast		3.52	.90	1.68			.03				.01	.27	.01		.58	.66	.22				.75		T.	T.	.10				1.84	1.09	11.66	
ton***	Delaware			.05	2.47	T.		.02				T	.11	T.	T	.11	1.14	.09		.03	.54	T.	.01		T.				T.	.36	1.70	6.63	
erton	Coast		1.10	.60	2.66	.05						.12			.97	1.31					.65			.83	.86					.72	.36	10.23	
land	Maurice		.23	.41	3.40						.24	.55			.37	.86	.18													1.20		7.52	
dbine	Coast																																
delphia, Pa.	Delaware			.03	2.31			.01			T.	.09	.24			1.14	1.21	.03	T	.10	.77		.45						T.	.14	.24	6.76	
<i>the Sea Coast.</i>																																	
ary Park	Coast				1.73	2.10				.01	.01	.22		.02	.31	.40	.04				.85		.03							.15	.10	5.97	
ntic City***	do.		.65	.75	1.68			T	T			.06	.09		.56	1.26				.04	.31		T.		.12					2.81	.12	8.45	
May City	do.		.31	.68	.87			T.	.03		.11	.03	.78	.11	T	.33	1.06	.11			T.	.88								.06		5.36	
r Branch**	do.			.23	4.09							.19			.07	1.17	1.10	.67			.21	T	T	T.					T.	1.31	T.	9.04	
ry Hook**	do.			.11	2.67	T.		.02				.04	.62		.07	.37	.75	.16	T		.55	T.		.37					T.	.35	.61	6.69	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
 †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
 \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.				Moisture.		Sun- shine
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	
							Miles per hour.	Direction.	Date.			
ntic City.....	29.98	30.32	27	29.43	17	7	33	nw.	17	77	81	60
o May City.....	30.02	30.35	27	29.60	17	7	45	nw.	16	80	84	.....
g Branch.....							78	nw.	17			
ark.....										72*	71†	54
York, N. Y.....	29.95	30.30	27	29.52	16	14	50	sw.	15	74	68	67
adelphia, Pa.....	29.97	30.32	27	29.47	17	8	32	n.	30	70	66	62
refield.....	29.95	30.31	27	29.53	16							62
ly Hook.....	29.96	30.33	27	29.50	16	12	43	s.	29	8	81	65
nton.....	29.96	30.31	27	29.49	16	10	43	nw.	17	74	70	56



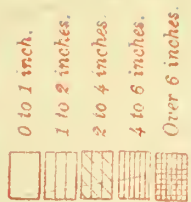
## Daily temperatures for June, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
<i>The Highlands and Kittatinny Valley</i>																																	
Belvidere.....	Maximum ...	85	83	85	68	58	66	74	80	80	83	94	85	80	84	88	82	81	61	69	74	74	76	73	80	80	86	87	84	93	85	79.3	
	Minimum .....	53	56	65	57	51	51	52	46	51	50	59	60	61	60	60	67	59	52	50	53	52	57	54	56	55	52	56	57	65	69	56.2	
Charlotteburg.....	Maximum ...	78	83	76	70	68	63	...	72	70	77	85	75	75	80	...	81	75	70	68	65	71	70	72	74	...	80	...	82	85	78	74.8	
	Minimum .....	48	47	60	49	45	48	49	38	39	40	53	65	55	59	62	...	57	47	45	45	47	50	55	49	50	49	48	49	60	64	50.8	
Dover.....	Maximum ...	85	89	85	65	56	66	71	78	76	82	92	81	73	85	90	82	69	58	69	72	75	75	73	81	79	86	87	86	93	85	81.1	
	Minimum .....	...	55	61	53	48	50	52	44	48	46	57	63	59	62	59	67	54	51	49	50	52	54	53	53	55	54	56	55	63	67	54.8	
Layton.....	Maximum ...	83	86	80	69	59	66	72	76	79	83	93	82	79	85	87	83	73	60	73	75	73	76	75	80	80	85	88	82	93	83	78.6	
	Minimum .....	52	52	60	46	50	50	50	41	47	45	52	63	60	63	55	64	55	50	45	48	50	54	50	49	50	46	50	52	60	68	52.6	
Newton.....	Maximum ...	81	85	80	73	62	63	68	74	74	80	89	88	87	81	85	83	74	56	66	70	72	73	72	77	76	81	84	81	90	82	76.9	
	Minimum .....	56	59	63	53	49	49	51	49	50	50	60	58	59	60	66	54	50	48	56	50	58	54	55	55	54	57	58	64	61	...	55.5	
Phillipsburg.....	Maximum ...	87	90	82	67	58	66	74	82	80	86	95	85	82	87	90	85	77	63	73	75	77	78	75	80	82	87	89	85	94	88	80.6	
	Minimum .....	55	58	63	54	50	52	52	47	53	52	59	66	61	59	60	67	56	52	51	54	52	57	56	57	58	57	57	58	64	68	56.8	
Sussex.....	Maximum ...	...	90	81	70	65	66	73	76	82	88	94	89	80	86	91	84	74	59	75	77	77	78	79	83	84	89	90	85	93	86	82.8	
	Minimum .....	...	59	42	50	50	51	52	45	...	...	...	62	56	...	55	...	55	50	47	56	50	...	54	57	...	51	...	62	...	50.9		
<i>The Red Sandstone Plain.</i>																																	
Bergen Point.....	Maximum ...	85	88	78	76	62	68	71	73	72	79	92	82	72	82	90	82	73	...	68	68	77	79	77	78	75	78	83	88	93	84	78.4	
	Minimum .....	55	58	58	60	48	50	48	51	56	...	60	68	...	61	62	67	57	56	54	52	54	59	58	58	...	60	60	63	...	57.4		
Boonton§§.....	Maximum ...	81	84	85	66	58	68	71	79	79	81	92	83	73	85	87	82	64	61	73	73	75	74	75	82	80	86	85	87	90	83	78.1	
	Minimum .....	52	53	62	50	48	51	53	43	46	45	57	65	57	59	56	68	62	52	49	49	51	54	53	52	53	53	55	53	61	66	54.3	
Elizabeth.....	Maximum ...	85	88	89	75	61	69	73	78	78	85	94	85	75	86	90	83	75	66	71	72	79	79	77	79	81	86	86	88	95	85	80.4	
	Minimum .....	53	56	66	54	50	52	50	48	51	48	60	68	60	58	60	67	58	53	50	52	54	57	55	56	57	52	55	58	65	66	56.3	
Flemington.....	Maximum ...	84	87	85	76	59	67	74	82	79	83	94	85	76	84	87	87	78	65	74	71	80	76	75	82	80	87	90	87	95	90	80.6	
	Minimum .....	54	55	67	58	50	53	53	48	53	50	60	67	61	64	61	68	59	55	51	54	54	59	58	57	58	60	61	58	65	68	58.0	
Highwood.....	Maximum ...	85	89	85	74	61	64	69	74	76	79	90	83	69	84	87	84	73	60	68	72	76	78	79	78	82	84	84	84	85	83	77.7	
	Minimum .....	56	60	67	53	50	52	53	44	55	55	63	69	60	62	66	70	59	55	54	57	55	63	62	62	60	61	63	65	69	66	60.3	
Jersey City.....	Maximum ...	85	91	89	75	60	68	74	75	78	79	94	88	72	88	91	85	77	64	71	74	79	80	78	79	84	89	87	89	90	85	80.6	
	Minimum .....	58	62	69	56	52	53	54	55	55	55	63	69	60	62	66	70	59	55	54	57	55	63	62	62	60	61	63	65	69	66	60.3	
Kearny.....	Maximum ...	85	90	84	71	58	67	73	73	79	83	93	81	73	86	90	87	76	63	79	72	79	79	76	80	83	90	86	86	92	85	80.0	
	Minimum .....	58	62	63	58	51	51	54	53	52	57	77	74	79	92	82	79	80	85	83	84	65	67	68	75	73	72	77	78	81	83	77.3	
Lambertville.....	Maximum ...	80	84	82	72	59	64	72	77	77	74	79	92	82	79	80	85	83	84	65	67	68	75	73	72	77	78	81	85	91	83	77.3	
	Minimum .....	47	57	...	56	50	56	50	47	51	56	60	65	60	63	59	62	57	52	...	54	54	62	56	56	58	54	...	58	64	67	56.7	
Little Falls.....	Maximum ...	87	91	85	74	59	71	78	84	83	86	97	83	77	90	91	86	70	65	80	78	81	80	79	84	86	92	89	87	94	88	82.5	
	Minimum .....	50	60	68	55	50	52	55	49	53	50	59	71	60	61	60	70	64	53	54	54	55	58	58	57	59	56	58	59	67	69	78.9	
Newark.....	Maximum ...	85	90	86	70	60	69	71	76	77	84	94	80	73	86	90	81	69	60	72	70	78	77	75	79	81	84	85	87	94	84	78.9	
	Minimum .....	59	65	69	57	51	53	55	55	55	56	64	67	60	62	67	69	55	53	54	58	55	63	61	62	60	63	63	65	66	67	60.3	
New Brunswick.....	Maximum ...	82	86	86	75	68	65	73	77	75	82	91	82	76	81	87	83	69	64	68	69	76	75	79	77	78	77	85	85	91	86	78.3	
	Minimum .....	53	57	61	58	51	51	51	49	54	50	60	62	60	61	62	67	57	54	51	54	55	62	57	59	58	56	59	60	65	64	57.2	
Paterson.....	Maximum ...	86	91	88	76	65	69	72	77	80	84	94	81	72	85	91	85	76	60	71	67	76	78	76	80	81	86	86	87	92	84	80.2	
	Minimum .....	56	61	60	65	50	52	53	50	53	52	66	72	66	61	64	70	57	53	52	54	53	59	67	59	59	62	56	68	77	68	59.8	
Plainfield.....	Maximum ...	84	87	85	70	59	67	72	78	77	78	92	84	75	85	89	83	71	65	72	71	77	76	75	81	78	84	87	84	92	85	78.8	
	Minimum .....	52	53	63	55	50	51	49	46	52	47	58	68	60	61	56	66	55	53	52	53	52	53	54	60	78	78	76	78	80	85	83	77.9
Ridgefield.....	Maximum ...	85	88	86	68	56	68	70	75	74	80	91	78	69	84	88	84	88	64	68	62	72	72	78	76	78	80	85	85	86	88	77.9	
	Minimum .....	55	59	64	53	50	51	51	48	50	50	60	63	58	60	60	68	54	53	52	53	54	60	57	56	57	53	56	59	66	66	56.5	
Somerville.....	Maximum ...	86	90	85	75	62	68	76	82	79	85	94	81	76	85	87	84	76	64	73	74	77	77	76	83	81	86	89	86	95	89	80.7	
	Minimum .....	54	56	65	59	50	52	50	48	53	49	58	67	60	63	61	66	60	54	51	54	...	53	56	57	57	56	61	60	65	67	57.7	
South Orange.....	Maximum ...	82	87	83	75	64	67	71	74	75	85	92	90	73	85	88	83	75	62	72	70	76	77	76	77	80	83	79	85	91	83	78.7	
	Minimum .....	55	58	66	57	50	52	52	52	52	61	75	67	60																			





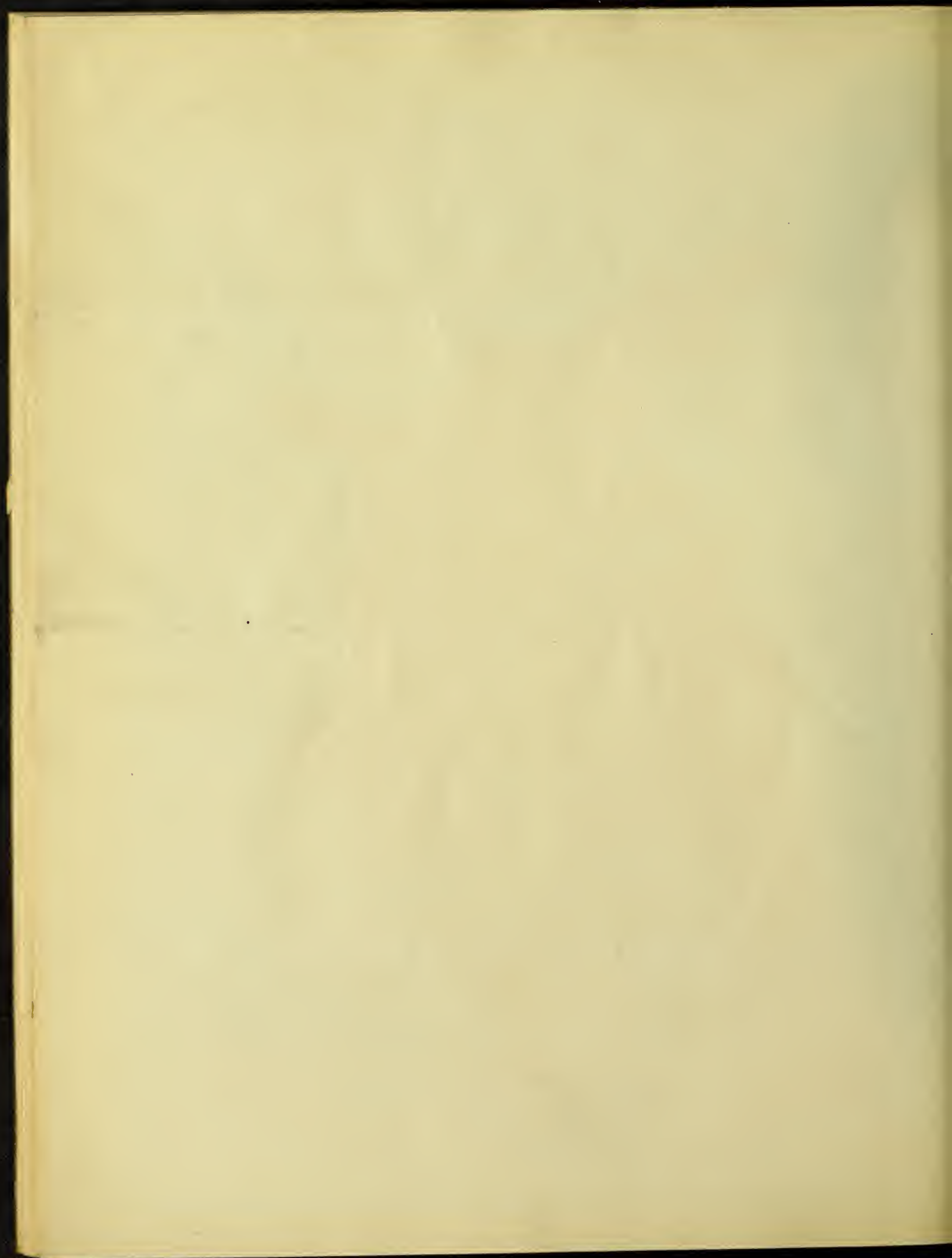
Scale of Shades.



Statute Miles  
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Kilometers  
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H.B.







05  
NJ  
U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

# CLIMATOLOGICAL DATA

NEW JERSEY SECTION

JULY, 1920.

BY

G. HAROLD NOYES

METEOROLOGIST



TRENTON, N. J.  
WEATHER BUREAU OFFICE  
AUGUST 17, 1920.



Departure of the Mean Temperature from the Normal, July, 1920.



Shaded portions show excess (+).  
Unshaded portions show deficiency (-).  
Lines show amount of excess or deficiency.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., JULY, 1920. No. 7.

GENERAL SUMMARY.

There was a distinct line of demarcation across the State, corresponding closely to the southern margin of the Red Sandstone Plain, separating a zone of severe storms in the north from normally pleasant midsummer weather in the south. Although the warmth was somewhat deficient throughout the State, the lack of moisture in the south was not an outstanding feature. In the northern half, however, the surplus of rain was in especially detrimental quantities. On the 18th in the evening a storm of some tornadic characteristics caused destruction in the southeastern portions of Phillipsburg. Torrents of rain and destructive winds caused pronounced damage to objects not of the most durable structure. The peculiar explosive effect on tightly closed buildings usually seen in typical tornadoes, was not present, and many fatalities were doubtless thereby avoided. On the 23d-24th notably heavy rains fell in the northern half of the State, amounts in excess of 5 inches in 24 consecutive hours having occurred at Newark and Newton. While crop growth in most of the southern half of the State was in some need of more rain, vegetation was being injured from surplus moisture to the northward.

No marine storm warnings along the coast were displayed during the month.

TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 39 stations, was 71.7°, which was 1.9° below the normal. The highest temperature was 96° at Bridgeton on the 24th, and the lowest, 42° at Charlotteburg on the 18th and 27th, Culvers Lake on the 26th and 27th, and Layton on the 27th. The highest monthly mean temperature was 75.4° at Bridgeton, and the lowest, 66.4° at Charlotteburg. The greatest daily range of temperature was 38° at Indian Mills on the 28th and Layton on the 27th. The temperature departure for the year 1920 to date, by sections, is: The Highlands, -2.4°; Red Sandstone Plain, -1.9°; Southern Interior, -1.7°; Sea Coast, -2.1°.

PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 42 stations was 5.76 inches, which was 0.96 inch above the normal. The greatest monthly rainfall was 16.25 inches at Newark, and the least, 1.20 inches at Asbury Park. The greatest amount of rain in any 24 consecutive hours was 5.36 inches at Newton on the 24th. The mean of the number of days on which 0.01 inch or more rain fell was 11, which was 1 more than the normal. The precipitation accumulated departure from the normal, for the year 1920 to date, by sections, is: The Highlands, +3.94 inches; Red Sandstone Plain, +4.26 inches; Southern Interior, +0.56 inch; Sea Coast, -0.07 inch.

WIND.

The prevailing wind direction was from the southwest, with an approximate velocity of 9 miles per hour, which was slightly below the normal. The highest velocity, sustained for 5 consecutive minutes, was 50 miles per hour from the northwest on the 31st at Long Branch.

SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 17, which was 5 more than the normal; partly cloudy, 10, or 2 less than the normal; cloudy, 4, or 3 less than the normal. The approximate percent. of possible sunshine was 73, which was about 10 percent. above the normal.

MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 2.9 feet, and the highest stage, 8.4 feet on the 25th. At Trenton the mean stage was 2.0 feet, which was 0.8 foot above the normal. The highest stage, 5.8 feet, occurred on the 26th.

Mean atmospheric pressure, reduced to sea level, was 30.00 inches, which was 0.02 inch above the normal. The highest reading was 30.28 inches at Cape May City on the 29th, and the lowest, 29.52 inches at Sandy Hook on the 3d.

Thunderstorms occurred in some portions of the State daily from the 1st to 4th, 7th to the 24th, except the 10th, 17th, 20th and 21st, and on the 30th and 31st. Dense fog was observed daily from the 9th to 14th and on the 22d and 23d. Hail occurred on the 3d at Cape May City, 22d at Jersey City, Somerville and South Orange, 23d at Chatham, 24th at Bergen Point, Jersey City, Layton, and Rancocas, and on the 31st at Chatham. It was not of sufficient severity to occasion special reports.

JUNE HAIL.

June 11th, Adelphia, Bridgeton, Freehold, Lakewood, and Ridgefield: hail varying in size from peas to hickory nuts did considerable damage to crops and fruit trees. June 13th, Bridgeton, Burlington, Cedarville, and Fairton, hail about one-fourth to one half-inch in diameter did much damage to crops, causing losses approximating \$6,000 at Cedarville and Fairton. June 14th, Bridgeton, hail about the size of peas and marbles caused slight damage to tender vegetation. June 15th, New Brunswick, hail one-eighth to one-fourth inch in diameter did very little damage. June 16th, Clayton, hail about the size of a ten-cent piece did slight damage. June 17th, Folsom, hail large as pigeon eggs did about \$3,000 damage to crops. June 22d, Culvers Lake and Flemington Junction, hail the size of peas caused no material damage. June 24th, Boonton, Mt. Bethel, and Pluckemin, hail from one-fourth to one inch in diameter did considerable damage at Mt. Bethel only. June 29th, Elizabeth, Imlaystown, New Brunswick, Newton, Paterson, and Trenton, hail varying in size from large peas to walnuts did severe damage to crops and fruit trees. June 30th, Hammonton, hail the size of plums caused moderate damage to crops.

COMPARATIVE DATA FOR JULY.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	75.2	100	44	3.50	7.28	1.29	.....	.....	.....	.....
1886.....	73.0	98	48	4.91	7.95	2.98	.....	.....	.....	.....
1887.....	77.1	102	54	7.67	15.29	1.95	.....	.....	.....	11
1888.....	71.1	95	45	3.50	7.03	1.25	.....	.....	.....	9
1889.....	73.4	95	48	10.19	18.58	4.66	.....	.....	.....	14
1890.....	72.5	101	39	5.62	7.55	3.60	12	11	8	9
1891.....	70.1	95	43	5.30	9.41	3.03	10	11	10	12
1892.....	74.3	105	44	4.03	7.96	2.38	12	14	5	8
1893.....	73.9	102	40	2.72	4.63	1.26	14	13	4	6
1894.....	75.7	106	44	1.66	5.00	0.75	14	12	5	10
1895.....	70.9	99	41	4.26	7.73	1.53	12	12	7	13
1896.....	75.0	98	47	5.50	13.29	2.45	13	10	8	15
1897.....	74.1	102	50	11.42	20.80	6.11	10	11	10	10
1898.....	75.3	107	38	4.96	11.72	2.23	11	13	7	11
1899.....	74.7	98	38	5.75	9.02	3.34	13	11	7	11
1900.....	75.9	104	42	4.74	7.21	1.11	15	12	4	14
1901.....	77.3	107	45	5.87	10.92	1.89	9	13	9	13
1902.....	73.0	100	43	4.78	9.92	1.83	10	12	9	12
1903.....	73.3	100	38	5.51	10.14	3.08	16	10	8	13
1904.....	72.3	98	42	4.87	8.06	2.41	13	10	8	12
1905.....	74.4	102	42	4.06	8.19	1.67	12	13	6	12
1906.....	72.8	94	46	5.58	13.25	3.44	11	14	6	12
1907.....	73.6	96	40	2.62	6.42	0.95	8	12	11	8
1908.....	75.6	106	42	4.70	8.12	1.97	12	13	6	9
1909.....	71.6	99	36	2.12	4.03	1.03	14	14	3	5
1910.....	75.3	99	42	1.36	5.33	0.22	12	12	7	5
1911.....	76.0	104	42	3.64	6.46	2.06	12	12	7	9
1912.....	73.7	100	36	3.86	9.91	1.01	14	10	7	8
1913.....	74.4	100	41	2.52	4.72	1.50	20	9	2	15
1914.....	71.5	97	40	6.05	8.57	1.94	9	11	11	14
1915.....	72.8	98	44	5.31	11.06	3.15	11	9	11	12
1916.....	74.4	97	45	5.40	9.01	2.23	10	13	8	12
1917.....	74.2	104	46	4.83	7.93	2.38	10	11	10	8
1918.....	72.2	104	29	3.93	13.60	1.20	17	9	5	14
1919.....	73.5	103	43	8.39	14.14	4.45	14	7	10	11
1920.....	71.7	96	42	5.76	16.25	1.20	17	10	4	11



## Climatological data for July, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation .01 in. or more.	Clear.	Pt. cloudy.			Cloudy.
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere.....	Warren.....	289	29	70.9 <sup>b</sup>	-1.8	88	13 <sup>†</sup>	47	27	30 <sup>b</sup>	9.28	+3.68	2.28	0	12	20	8	3	.....	Samuel J. Hixson.
Charlotteburg.....	Passaic.....	719	28	66.4	-3.1	86	13 <sup>†</sup>	42	18 <sup>†</sup>	36	8.66	+3.78	2.90	0	12	21	10	0	w.	George S. Briggs.
Culvers Lake <sup>††</sup> .....	Sussex.....	848	19	.....	.....	.....	.....	42	26 <sup>†</sup>	.....	8.27	+3.51	3.10	0	12	17	13	1	se.	Brice E. Riker.
Dover.....	Morris.....	600	36	70.2 <sup>a</sup>	-1.2	90	13 <sup>†</sup>	47	27	32	9.05	+3.57	2.78	0	12	4	14	13	.....	William C. Harris.
Layton.....	Sussex.....	480	20	68.9	-1.3	92	24	42	27	38	7.96	+3.53	2.14	0	12	19	1	11	sw.	A. M. Depue.
Newton.....	Sussex.....	769	39	69.3 <sup>b</sup>	-2.6	87	24	48	26 <sup>†</sup>	25	12.52	+7.82	5.36	0	10	18	9	4	w.	Irving G. Kern.
Phillipsburg.....	Warren.....	363	38	71.7	-2.3	90	13 <sup>†</sup>	47	27	31	8.99	+4.14	2.44	0	12	16	9	6	s.	D. Wilson Smith.
Sussex.....	Sussex.....	442	29	70.7 <sup>†</sup>	-1.0	93	24	45	26	37	6.41	+1.89	2.23	0	12	19	7	5	nw.	Rev. W. August George.
Means and extremes.....				69.7	-1.9	93	24	42	18 <sup>†</sup>	38	8.89	+3.99	5.36	0	12	17	9	5	w.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point <sup>††</sup> .....	Hudson.....	37	23	72.3	-1.1	89	13 <sup>†</sup>	50 <sup>a</sup>	27	31	.....	.....	2.16	0	.....	8	23	0	sw.	William H. Mitchell.
Boonton.....	Morris.....	400	30	69.4 <sup>a</sup>	.....	88 <sup>a</sup>	14	46	27	31 <sup>a</sup>	7.90	+2.44	2.73	0	14	25	6	0	sw.	J. W. Demmers.
Chatham.....	Morris.....	330	18	.....	.....	.....	.....	.....	.....	.....	8.85	+3.57	2.19	0	12	23	3	5	.....	Paul Molitor, Sr.
Elizabeth.....	Union.....	45	41	72.2 <sup>b</sup>	-3.3	92	7	48	27	32	7.74	+2.48	2.00	0	11	.....	.....	.....	sw.	L. B. Bonnett.
Flemington.....	Hunterdon.....	140	31	72.7	-1.2	90	10 <sup>†</sup>	50	27	30	5.43	+0.47	1.46	0	9	19	9	3	nw.	Hiram E. Deats.
Highwood.....	Bergen.....	90	32	70.6	-1.9	88	24	47	27	30	6.87	+1.50	2.24	0	14	10	12	9	nw.	Charles J. Bates.
Jersey City.....	Hudson.....	10	21	74.8	+0.1	92	13 <sup>†</sup>	54	26	28	5.88	+1.10	1.72	0	12	16	10	5	s.	S. K. Pearson, Jr.
Kearny.....	Hudson.....	.....	.....	73.2	.....	90	10 <sup>†</sup>	53	26 <sup>†</sup>	32	6.01	.....	1.85	0	13	8	15	8	sw.	Wm. J. Chandler, M. D.
Lambertville.....	Hunterdon.....	80	33	70.1 <sup>b</sup>	-4.4	86	1 <sup>†</sup>	48	27	29	5.63	+0.59	.....	0	11	.....	.....	.....	sw.	Thomas R. Hunt.
Little Falls.....	Passaic.....	180	37	71.0 <sup>a</sup>	.....	91	10 <sup>†</sup>	52	27	30	10.01	+4.42	2.88	0	15	19	6	6	w.	Montclair Water Co.
Newark.....	Essex.....	159	78	73.9	-0.4	91	13	55	27	26	16.25	+11.52	5.14	0	14	11	13	7	nw.	Prof. William Wiener.
New Brunswick.....	Middlesex.....	110	67	72.1	-2.2	89	13 <sup>†</sup>	49	27	27	6.00	+0.95	2.12	0	14	21	7	3	sw.	N. J. Experiment Station.
New Milford <sup>†</sup> .....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	14	4	6	21	sw.	Hackensack Water Co.
Paterson.....	Passaic.....	80	49	72.9 <sup>b</sup>	-1.4	92	24	52	27	27	6.70	+1.37	1.96	0	14	4	6	21	sw.	Marion T. Probert.
Plainfield.....	Somerset.....	100	33	71.1 <sup>a</sup>	-2.8	90	24 <sup>†</sup>	50	26 <sup>†</sup>	32	8.32	+2.92	2.31	0	13	14	15	2	.....	E. D. Pearson.
Pompton Plains.....	Morris.....	195	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. S. Taylor.
Ridgefield <sup>††</sup> .....	Bergen.....	70	5	71.0	.....	89	24	48	27	31	5.56	.....	2.35	0	12	18	11	2	sw.	George P. Kirsten.
Somerville.....	Somerset.....	60	38	73.0 <sup>a</sup>	-0.9	91	13 <sup>†</sup>	49	27	34	7.21	+2.08	2.00	0	13	20	7	4	sw.	Peter V. D. Harcastle.
South Orange.....	Essex.....	200	50	71.8	-1.3	87	13 <sup>†</sup>	54	26 <sup>†</sup>	26	9.23	+4.11	2.12	0	14	16	7	8	w.	Wm. H. Needer.
Woodcliff Lake <sup>††</sup> .....	Bergen.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....	Bergen.....	365	50	72.5	-1.0	88	13	55	26	22	4.78	+0.24	1.65	0	13	6	18	7	s.	U. S. Weather Bureau.
Means and extremes.....				72.0	-1.6	92	7 <sup>†</sup>	46	27	34	7.72	+2.85	5.14	0	13	15	10	6	sw.	
<i>The Southern Interior.</i>																				
Bridgeton.....	Cumberland.....	30	39	75.4	-1.7	96	24	51	27	30	4.61	+0.18	1.80	0	8	25	1	5	sw.	Henry A. Jorden.
Burlington.....	Burlington.....	12	34	75.0	-0.3	95	31	51	27	31	3.34	-1.69	0.70	0	13	25	5	1	nw.	D. S. B. McCoy.
Camp Dix.....	Burlington.....	.....	2	72.2 <sup>a</sup>	.....	93	24	48	26 <sup>†</sup>	34	4.03	.....	0.62	0	13	2	4	25	sw.	U. S. Army.
Clayton.....	Gloucester.....	126	28	72.5 <sup>a</sup>	-3.5	94	24	50	27 <sup>†</sup>	35	2.02	-2.25	1.05	0	8	24	5	2	sw.	Marvin Porch.
Hammonton.....	Atlantic.....	103	18	.....	.....	.....	.....	.....	.....	.....	3.05	-1.64	1.28	0	9	22	9	0	s.	G. H. Parkhurst.
Hightstown.....	Mercer.....	120	27	72.0	-2.0	93	31	45	27	34	2.25	-3.72	0.80	0	10	23	1	7	sw.	E. H. Savige, Jr.
Imlaystown.....	Monmouth.....	185	31	72.0	-3.2	92	13 <sup>†</sup>	45	27	34	3.40	-1.62	0.73	0	12	18	12	1	sw.	Wm. R. Hendrickson.
Indian Mills <sup>††</sup> .....	Burlington.....	76	31	72.0	-3.1	93	24	46	26 <sup>†</sup>	38	3.28	-0.78	1.05	0	10	12	14	5	s.	James M. Armstrong.
Lakewood.....	Ocean.....	54	17	71.2	-1.7	92	24 <sup>†</sup>	46	27	35	2.39	-2.64	0.77	0	12	21	4	6	sw.	R. W. Holman.
Moorestown.....	Burlington.....	75	58	74.4 <sup>b</sup>	-0.4	93	31	50	27	36	5.60	+1.02	2.80	0	10	7	24	0	s.	Stokes Seed Farms Co.
Northfield.....	Atlantic.....	25	13	.....	.....	.....	.....	.....	.....	.....	1.44	-2.49	0.36	0	9	.....	.....	.....	.....	William L. Flick.
Pleasantville <sup>††</sup> .....	Atlantic.....	26	22	.....	.....	.....	.....	.....	.....	.....	1.96	-2.09	0.46	0	10	26	3	2	.....	Lincoln Van Gilder.
Trenton.....	Mercer.....	190	49	73.0	-1.5	90	13	53	26	26	2.16	-2.61	0.89	0	9	10	13	8	s.	U. S. Weather Bureau.
Tuckerton.....	Ocean.....	23	27	72.5	-1.6	92	31	47	27	36	2.02	-1.88	0.64	0	7	12	17	2	sw.	Frank R. Austin.
Vineland.....	Cumberland.....	109	52	74.4	-2.0	95	24	49	26	32	.....	.....	.....	0	.....	23	7	1	sw.	H. C. Himes.
Woodbine.....	Cape May.....	43	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	Jos. H. Cohen.
Philadelphia, Pa.....	Cape May.....	117	50	75.6	-0.2	91	31	56	26	25	3.52	-0.81	0.81	0	11	7	18	6	s.	U. S. Weather Bureau.
Means and extremes.....				73.0	-1.9	96	24	45	27	38	2.97	-1.72	2.80	0	14	18	8	5	sw.	
<i>The Sea Coast.</i>																				
Asbury Park.....	Monmouth.....	22	31	68.6	-4.3	90	24	54	26 <sup>†</sup>	33	1.20	-4.05	0.80	0	10	19	9	3	s.	Information Bureau.
Atlantic City.....	Atlantic.....	16	47	70.0	-2.5	85	8	54	27	22	1.86	-1.92	0.84	0	11	16	10	5	sw.	U. S. Weather Bureau.
Cape May City.....	Cape May.....	17	36	70.6	-2.8	85	8	55	27	20	3.42	-0.36	1.51	0	8	15	10	6	s.	U. S. Weather Bureau.
Long Branch.....	Monmouth.....	25	13	69.8	-2.8	91	24	53	27	27	1.96	-2.94	0.66	0	9	17	12	2	s.	William D. Martin, Jr.
Sandy Hook.....	Monmouth.....	22	22	72.4	-1.5	88	13	59	26	21	4.79	+0.01	2.09	0	10	8	16	7	s.	U. S. Weather Bureau.
Means and extremes.....				70.3	-2.8	91	24	53	27	33	2.65	-1.85	2.09	0	10	15	11	5	s.	
For the State.....				71.7	-1.9	96	24	42	18 <sup>†</sup>	38	5.76	+0.96	5.36	0	11	17	10	4	sw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily precipitation for July, 1920.																																	
Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>The Highlands and Kittatinny Valley</i>																																	
Belvidere	Delaware			.84				.28				.40		.54	.47				.14	.68			2.28	1.95	.58	.36						.76	9.28
Charlotteburg	Passaic	.20	.87					.27				2.00	.04	.17				.55	.26			1.08		2.90	.10						.22	8.66	
Culvers Lako	Delaware			1.20	.02			T.	.12			.52	.02	.60				.50	.56			.32	1.29	3.10							.02	8.27	
Dover	Passaic			2.18				*	.21	.06		1.98	.18	.07				.27	.09			1.05		2.78							.18	9.05	
Layton	Delaware			1.58	.03			.28				.70		.57	.13			.06	1.26			.10	.60	2.14							.51	7.96	
Newton	Delaware			1.25				.45				.41		.74				.32	.34			1.31	1.35	5.36							.99	12.52	
Phillipsburg	do.	.31	.62					.25		.14		.81		.45	T.			1.96				2.44	.39	.04						.69	.89	8.99	
Sussex	Hudson			1.22	.12			.16	.03			.48		.54				.15	.30			.12	1.04	2.23							.02	6.41	
<i>The Red Sandstone Plain.</i>																																	
Bergen Point	Coast			2.16				.12	.03			.28	.05	T.	\$			T.	1.05			1.40	.80	1.38	T.							\$	
Boonton	Passaic	.87		1.50	.02			.17		.10		.37	.75		.06	.03			.36	T.			.80	2.73	.02						.12	7.90	
Chatham	do.		1.75		.18			.21				.45		.31	.01			.21	.09			1.41	2.19								.73	8.85	
Elizabeth	Coast			2.00	.01			.18		.05		.04	.87		.31	.01		.47			.08	1.08			1.44	1.52					T.	7.74	
Flemington	Raritan			1.46				.71	.02			1.20	.30		.45			.17	.36			T.	.76	T.								5.43	
Highwood	Hackensack			2.24				.12	.47			1.26	.04	.12	.07			.05	.08			.21	.27	1.65	.14						.15	6.87	
Jersey City**	Coast			1.72				.07		.02		.01	.60		.30			.03	.70			.60	.18	1.45						T.	.20	5.88	
Kearny	Coast		*	1.50				.11	*	.01		1.07		.20	.12			*	.26			*	.80	1.85							.09	6.01	
Lambertville	Delaware			1.47				*	*			2.49		*	.31			*	.70				.31	.07							.28	5.63	
Little Falls	Passaic	.60		1.65	.02			.22		.63	T.	.10	2.88		.30	.03			.33	.01			.55	2.42	.12						.15	10.01	
Newark**	Coast		.40	1.03				.14		.11		1.45	.68	1.90	.41			.79	2.20			2.14	.35	5.14							.11	16.25	
New Brunswick	Raritan	.70		1.51				.14	.02		.22	.02	.06		.11	.10		.09	.59			2.12	.26	.06								6.00	
New Milford	Hackensack			192.52				.13		1.17		.90		.30	.02			.02	.20			.13	.24	2.04							.84	8.70	
Paterson	Passaic	.16		1.96				.17	.40			.04	1.22	.30				.05	.30			.02	.38	1.60	.05						.05	6.70	
Plainfield	Raritan			2.31				.32		.02		.05	.76		.05	.15		.09	1.40			1.83	.57	.37							.40	8.32	
Pompton Plains	Passaic																																
Ridgefield	Hackensack		T.	2.35				.09		.04		.09	.40	.20	.24			T.	.09			.17	.25	1.50							.05	5.56	
Somerville	Raritan	.83		2.00				.20				1.13	.15		.23	.03		T.	.52			1.12	.90	.02							.01	7.21	
South Orange	Rahway			1.54				.07	.14	.11		.03	2.12		.08	.39		.34	.69			1.19	.48	1.88							.17	9.23	
Woodcliff Lake	Hackensack		.11	.57				.10		1.00		.10		.09	.03			.43	.12			.18	.27	1.76							.29	5.05	
New York, N. Y***	Coast		.35	1.30				.04		.01			.42		.16	.13		.05	.32			.29	.36	1.11						T.	.24	4.78	
<i>The Southern Interior.</i>																																	
Bridgeton	Coast		.75	T.				.85						.18	.45			1.80	.25				.08								.25	4.61	
Burlington	Delaware	.30		.69	.02			.59	.04			.10		.70		.05	.15	.11				.10	.40	.09							.41	3.34	
Camp Dix	Delaware		.49	.05				.62		.44	.04		.24		.23	.28	.18		.21	T.			.57	.27								4.03	
Clayton	Maurice			1.05				.32	.06			T.		.13	.02		.09	.10	T.			.25										2.02	
Hammonton	Mullica	.02		.69				.53				.08		.21	.13				1.28			.03										3.05	
Hightstown	Raritan	.25		.80				.30	T.			.15		.20	T.			.12	.13			.03	.20	.07								2.25	
Imlaystown	Delaware		.59		.73	.01		.50				.04		.68	.01			.21	.05			.40	.06	.12								3.40	
Indian Mills	Mullica	1.05		.79				.20	.34	T.		.04		.22	T.			.21	.08			.30	.05									3.28	
Lakewood	Metedeconk		.05	.50				.17	.77			T.	.20		.17	T.		.02	.11	.02		.25	.06	.07								2.39	
Moorestown	Delaware	2.80		.83				* .59				.09	.08	.35				.18	.01				.67									5.60	
Northfield	Coast			.36				.19						.01	.14	.07	.30	.20				.02		.15								1.44	
Pleasantville	Coast			.27	.07			T.	.22						T.	.46	.05	.37	.12			.21	.15	.04								1.96	
Trenton***	Delaware		.40	.50				.47				.14		.08	.12	T.		.07				.10	T.								.28	2.16	
Tuckerton	Coast			.30				.23						.19			.64	.07				.06	.53									2.02	
Vineland	Maurice			.45				.77				1.18		.08	.20	.57																2	
Woodbine	Coast																																
Philadelphia, Pa.	Delaware		.70	.25				.79			.22	.04	T.	.09	.29			.09				.81	.11								.13	3.52	
<i>The Sea Coast.</i>																																	
Asbury Park	Coast			.80					.06					.06				.08	.03			.03	.01	.06	.01						.06	1.20	
Atlantic City***	do.		.17	.06				.31						.16	T.	.06		.71	.13			.16	.05	.02								1.86	
Cape May City	do.			.98				T.	.18					.14	.01		.73	.79					.35	.24								3.42	
Long Branch**	do.			.66				.01				T.	.02		.10		.01				.19	.40	.47								.10	1.96	
Sandy Hook***	do.		T.	1.41				.06		T.		.15		.04	.39			.03	T.			.02	.40	2.09	T.						.20	4.79	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station: precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
||| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
\* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

Miscellaneous Data.													
Stations.	Pressure.					Wind.			Moisture.		Sun- shine		
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine.	
							Miles per hour.	Direction.	Date.				
Atlantic City.....	30.00	30.24	29	29.55	3	7	23	w.	24	80	92	70	
Cape May City.....	30.04	30.28	29	29.64	3	7	48	nw.	3	82	88	.....	
Long Branch.....	.....	.....	.....	.....	.....	.....	50	nw.	31	.....	.....	.....	
Newark.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	72*	71†	79	
New York, N. Y.....	29.98	30.22	28	29.55	3	15	60	w.	14	74	70	77	
Philadelphia, Pa.....	30.00	30.23	29	29.58	3	9	25	s.	7	73	64	74	
Ridgefield.....	29.98	30.23	28	29.57	3	.....	.....	.....	.....	.....	.....	.....	
Sandy Hook.....	29.98	30.23	29	29.52	3	13	48	nw.	24	81	79	73	
Trenton.....	29.98	30.22	29	29.57	3	10	40	nw.	31	77	69	70	



Daily temperatures for July, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.			
<i>The Highlands and Kittatinny Valley</i>																																			
Belvidere.....	Maximum.....	84	83	83	74	79	83	83	...	85	85	83	88	...	81	78	78	73	85	80	82	84	83	88	75	75	76	82	83	84	84	81.8 <sup>a</sup>			
	Minimum.....	60	60	62	59	57	54	65	66	...	81	83	84	80	86	85	84	79	74	70	78	77	81	75	78	74	77	81	83	80	84	60.0 <sup>a</sup>			
Charlotteburg.....	Maximum.....	80	79	80	74	73	75	79	80	...	81	83	84	80	86	85	84	79	74	70	78	77	81	75	78	74	77	81	83	80	84	79.2			
	Minimum.....	55	47	59	51	55	44	60	65	49	82	86	89	82	84	90	87	82	81	80	73	84	85	...	85	90	77	72	79	83	85	86	62.6 <sup>b</sup>		
Dover.....	Maximum.....	85	80	83	75	80	84	83	81	86	89	87	81	84	90	87	82	78	78	85	83	81	79	86	92	72	72	80	85	83	84	81.5			
	Minimum.....	54	55	62	58	55	51	62	63	54	55	58	70	80	83	87	82	78	78	76	85	83	81	79	86	92	72	72	80	85	83	84	61.5		
Layton.....	Maximum.....	83	81	83	72	78	80	81	82	79	84	85	85	81	80	80	63	67	55	44	46	64	58	51	61	65	58	43	42	52	52	59	63	56.3	
	Minimum.....	58	54	60	53	56	49	52	63	54	55	58	70	80	83	85	85	80	72	73	72	82	78	80	82	87	75	...	73	80	81	81	62	79.4 <sup>b</sup>	
Newton.....	Maximum.....	79	79	79	74	...	79	82	80	81	81	81	83	83	83	85	85	80	72	73	72	82	78	80	82	87	75	...	73	80	81	81	82	59.2	
	Minimum.....	62	58	59	60	53	...	63	65	60	60	62	63	65	60	62	63	65	60	56	52	73	72	80	84	86	85	...	71	78	84	87	88	89	83.8
Phillipsburg.....	Maximum.....	86	85	84	74	78	85	89	81	86	86	87	85	90	90	90	84	80	80	76	88	84	86	85	87	89	75	71	78	84	87	88	89	83.8	
	Minimum.....	60	59	61	60	55	54	65	63	58	59	62	66	62	65	67	60	54	54	69	60	57	63	64	65	55	50	47	54	56	59	64	59.6		
Sussex.....	Maximum.....	81	82	83	75	79	85	83	85	87	90	88	86	90	89	88	79	80	75	86	86	86	82	86	93	76	74	81	87	86	85	87	84.0		
	Minimum.....	52	55	59	54	48	61	61	53	...	58	70	59	...	66	...	57	55	66	...	50	...	62	...	59	45	...	...	...	...	...	64	57.4 <sup>k</sup>		
<i>The Red Sandstone Plain.</i>																																			
Bergen Point.....	Maximum.....	83	83	77	74	78	81	83	83	84	87	78	84	89	86	86	78	78	76	85	83	85	85	89	78	76	77	84	85	88	89	82.5			
	Minimum.....	61	61	64	60	55	58	65	68	61	64	69	64	89	86	89	63	60	59	68	61	65	84	66	64	...	50								
Boonton§§.....	Maximum.....	83	81	80	75	78	80	85	80	84	86	85	82	88	86	82	80	80	77	81	84	81	68	84	...	52	47	46	50	53	58	64	57.4		
	Minimum.....	58	55	60	59	55	49	62	66	54	56	62	67	59	62	66	60	53	49	57	63	51	60	63	64	...	52	47	46	50	53	58	64	57.4	
Elizabeth.....	Maximum.....	85	85	82	78	81	84	92	88	87	89	...	90	90	87	80	80	79	85	85	86	86	86	90	84	75	79	84	84	87	89	84.7 <sup>b</sup>			
	Minimum.....	58	59	65	59	53	51	61	67	58	62	...	61	67	68	60	55	53	68	60	56	64	65	67	64	...	50	48	52	54	57	65	59.5 <sup>b</sup>		
Flemington.....	Maximum.....	85	83	84	77	79	83	88	81	87	90	83	84	90	89	83	82	83	75	84	88	85	87	89	80	73	80	84	85	86	89	81.0			
	Minimum.....	60	60	61	62	58	55	65	67	60	62	66	65	65	68	62	57	55	60	63	68	65	65	68	65	52	50	55	55	58	66	61.4			
Highwood.....	Maximum.....	79	81	73	74	78	79	82	81	82	84	79	84	86	86	81	79	79	74	81	84	84	84	88	77	70	76	81	83	84	86	80.6			
	Minimum.....	58	59	63	58	57	53	63	63	57	58	68	68	62	68	69	59	55	51	68	60	54	61	65	67	64	48	47	53	55	61	66	60.6		
Jersey City.....	Maximum.....	87	82	88	78	82	83	84	84	87	90	84	86	92	91	84	81	80	77	86	86	86	87	88	92	84	77	81	86	84	87	90	85.0		
	Minimum.....	65	61	64	64	59	61	67	69	67	67	70	70	70	70	66	70	65	61	60	69	85	85	86	86	90	77	74	83	90	84	87	88	83.5	
Kearny.....	Maximum.....	86	80	83	75	72	82	82	82	84	90	85	85	90	90	83	80	81	77	85	80	81	82	85	85	78	70	75	80	84	86	80	81 <sup>b</sup>		
	Minimum.....	65	63	65	64	57	54	60	65	63	63	69	67	65	69	70	63	60	56	70	65	60	68	66	68	62	53	53	58	61	61	69	63.0		
Lambertville.....	Maximum.....	86	80	80	76	76	78	83	...	83	81	79	85	84	84	81	77	75	73	76	80	81	82	85	85	78	70	75	80	84	86	80	81 <sup>b</sup>		
	Minimum.....	65	60	60	60	55	53	63	...	60	65	70	62	67	68	62	56	55	62	61	58	64	61	62	61	50	48	54	55	58	65	60	1 <sup>b</sup>		
Little Falls.....	Maximum.....	87	85	...	79	83	84	...	86	88	91	...	89	91	91	86	84	83	...	84	89	87	85	87	90	79	...	85	...	87	87	89	80.6 <sup>b</sup>		
	Minimum.....	61	63	60	59	59	55	63	69	61	62	66	70	62	66	70	61	57	56	54	65	58	65	66	66	65	53	52	56	57	63	66	61.5		
Newark.....	Maximum.....	84	84	79	76	78	82	84	82	84	89	83	86	91	90	83	80	80	76	86	85	85	86	86	90	77	71	78	85	84	86	89	83.2		
	Minimum.....	67	67	64	61	59	61	67	68	66	66	70	67	67	67	68	70	65	62	59	71	69	65	68	66	67	60	56	55	59	61	60	66	64.6	
New Brunswick.....	Maximum.....	83	82	79	80	76	81	86	83	83	87	86	88	89	88	86	78	78	77	84	82	83	84	86	88	82	70	76	79	82	85	89	82.6		
	Minimum.....	63	60	66	61	56	56	64	68	60	63	67	68	65	67	67	63	67	56	70	62	59	64	65	66	62	51	49	54	56	58	67	61.6		
Paterson.....	Maximum.....	83	84	77	77	79	83	84	82	86	86	82	86	80	89	86	80	79	77	85	80	86	84	86	92	85	73	80	84	86	85	88	83.3		
	Minimum.....	61	62	63	59	57	57	65	68	61	62	73	72	70	67	68	67	61	...	56	66	60	60	...	65	...	66	53	52	58	...	68	62.5 <sup>b</sup>		
Plainfield.....	Maximum.....	84	84	82	75	78	82	89	81	85	87	83	84	89	89	84	...	79	76	83	83	84	85	86	90	78	73	72	82	84	85	90	83.0 <sup>a</sup>		
	Minimum.....	56	56	64	59	52	52	62	64	57	61	65	67	60	65	67	...	57	52	68	60	56	61	67	65	60	50	50	52	55	63	59.2 <sup>b</sup>			
Ridgefield.....	Maximum.....	84	81	77	74	78	81	82	82	83	85	80	85	88	88	83	79	78	75	84	82	84	83	85	89	79	74	79	81	82	84	86	81.8		
	Minimum.....	62	61	63	57	56	54	65	63	59	61	68	67	62	68	67	61	54	52	66	62	57	66	66	67	54	49	48	54	56	59	66	60.0		
Somerville.....	Maximum.....	85	85	81	81	79	83	89	85	86	88	83	83	91	91	87	79	77	84	83	86	84	84	90	84	73	79	83	86	88	88	84	86	81.0 <sup>a</sup>	
	Minimum.....	59	61	65	61	55	55	65	67	60	62	67	69	63	67	67	61	...	70	61	58	66	66	68	66	61	49	53	58	58	66	...	61.5 <sup>b</sup>		
South Orange.....	Maximum.....	82	82	79	74	77	81	85	81	83	85	82	85	85	87	87	82	78	77	76	84	82	84	84	87	78	71	77	81	82	84	86	81.5		
	Minimum.....	59	60	64	63	56	56	64	68	60	64	68	67	64	68	69	68	58	55	69	64	58	65	65	66	62	54	54	56	58	67	62.2			
New York, N. Y.....	Maximum.....	81	79	75	73	76	80	78	81	83	87	80	81	88	87	80	78	77	72	82	82	83	85	82	87	76	70	76	82	80	82	86	80.3		
	Minimum.....	68	61	62	63	59	61	66	68	69	69	68	65	67	68	69	65	62	66	68	67	68	68	66	65	58	55	56	62	63	62	67	64.7		
<i>The Southern Interior.</i>																																			
Bridgeton.....	Maximum.....	89	89	85	80	80	86	88	85	92	90	87	87	90	93	92	87	82	78	88	85	87	89	92	96	82	75	77	82	85	89	92	86.5		
	Minimum.....	68	64	67	60	55	58	67	70	64	65	66	72	70	70	65	62	62	70	65	62	63	63	67	70	76	66	52	51	53	55	62	67	6	

\* , b , c , etc., indicate, respectively, 1, 2, 3, etc., days missing from the record, to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged



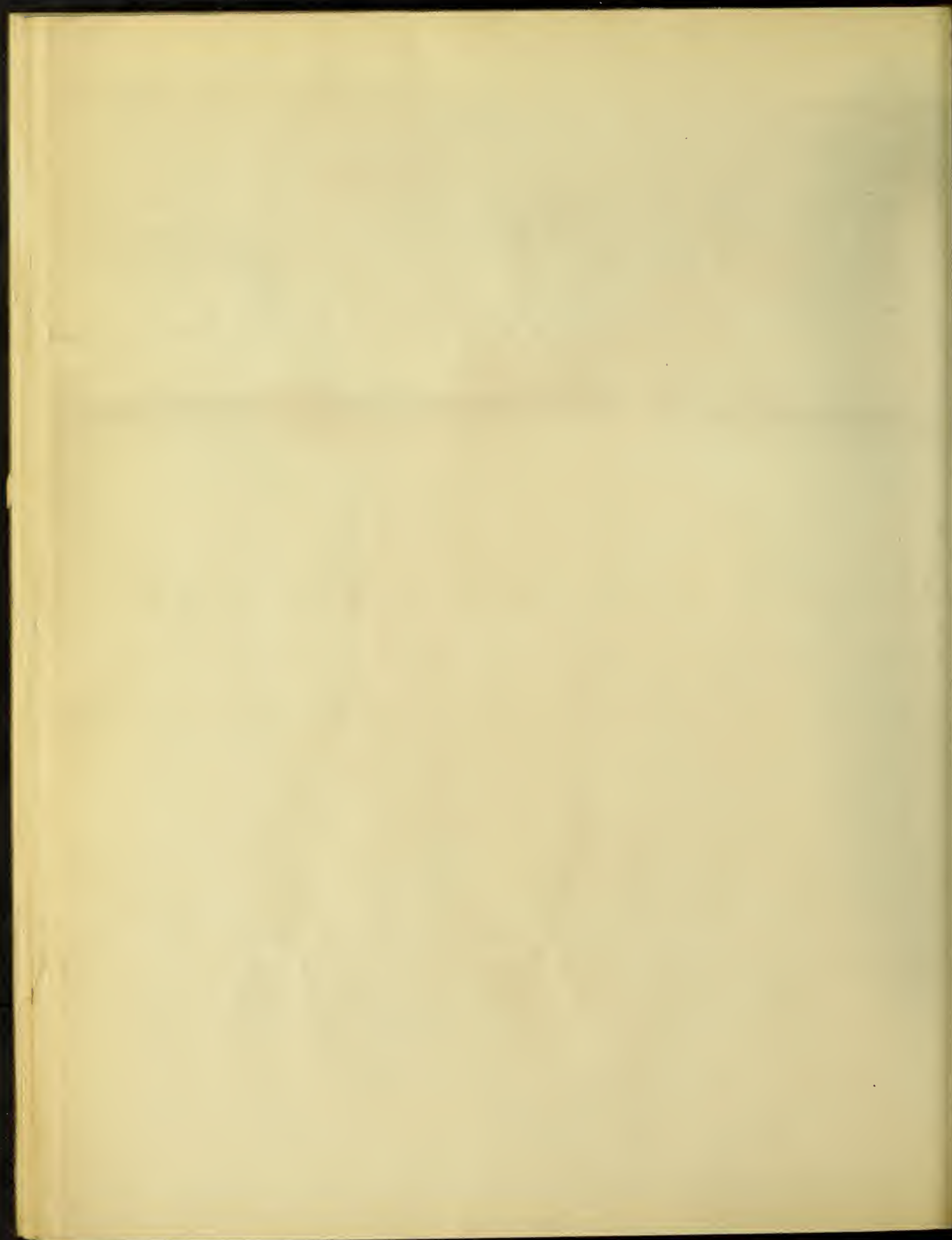


Scale of Shades.

[White box]	0 to 1 inch.
[Diagonal lines \]	1 to 2 inches.
[Diagonal lines /]	2 to 4 inches.
[Cross-hatch]	4 to 6 inches.
[Dense cross-hatch]	Over 6 inches.

H.B.







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Y NJ  
U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

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# CLIMATOLOGICAL DATA

NEW JERSEY SECTION

AUGUST, 1920.

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BY

G. HAROLD NOYES

METEOROLOGIST

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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
SEPTEMBER 20, 1920.



Departure of the Mean Temperature from the Normal, August, 1920.



Shaded portions show excess (+).  
Unshaded portions show deficiency (-).  
Lines show amount of excess or deficiency.



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV.

TRENTON, N. J., AUGUST, 1920.

No. 8.

## GENERAL SUMMARY.

The weather during August in New Jersey produced one remarkably outstanding feature, namely, the frequency with which rain occurred. There have been many months with heavier rainfall, but this exceeds all records of the State as regards frequency, there having been a State average of 17 rainy days, which was 7 days more than normal, and 4 more than the previous high August record. At individual stations, the record ranged from 10 rainy days in the extreme north, to 24 in the south-central. Other weather conditions were not remarkable, except that, as might be expected, there was a considerable excess of cloudiness and deficiency of sunshine, and long continuous periods of disagreeably oppressive humidity. In warmth, the State was a fraction of a degree above normal, except that it was cool along the immediate shore of the ocean. Previous August rainfall records show that the extremes usually vary from less than an inch to considerably over ten inches, so that as a rule, a wide diversity of rainfall characteristics is to be looked for in New Jersey in August.

The crop situation as a whole was favorable. The rainy weather interfered with the harvesting of grass and grain, and with farm work generally, and crops became very weedy, but development was greatly favored, and all crops indicated large yields, and practically regained all lost time from a belated start in spring.

No storm warnings were displayed during the month.

## TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 72.3°, which was 0.3° above normal. The highest temperature was 94° at Little Falls and Plainfield on the 17th, and the lowest, 42° at Charlotteburg on the 4th. The highest monthly mean was 75.1° at Burlington, and the lowest mean, 69.2° at Charlotteburg. The greatest daily range of temperature was 37° at Charlotteburg on the 4th. The temperature departure from normal for the year 1920 to date, by sections, is: The Highlands, -2.0°; Red Sandstone Plain, -1.6°; Southern Interior, -1.4°; Sea Coast, -2.0°.

## PRECIPITATION.

The average total rainfall of the State, as deduced from observations of 44 stations, was 6.10 inches, which was 1.31 inches more than normal. The greatest monthly amount was 10.60 inches at Moorestown, and the least, 2.94 at Elizabeth. The greatest amount accumulated in any 24 consecutive hours, was 3.15 inches at Indian Mills on the 6th. The average number of days on which 0.01 inch or more precipitation occurred, was 17, which was 7 more than normal. From the 5th to 24th it rained in nearly every portion of the State, and at some stations rain fell every day but one, of that period.

The accumulated precipitation departure from normal for the year 1920 to date, by sections, is: The Highlands, +4.60 inches; Red Sandstone Plain, +5.54 inches; Southern Interior, +2.18 inches; Sea Coast, +1.40 inches.

## WIND.

The prevailing wind movement was from the southwest, with an average velocity of about 9 miles per hour which was approximately normal. The highest velocity, sustained for 5 consecu-

tive minutes, was 51 miles per hour from the southwest, at Long Branch, on the 9th. Velocities of considerable force also occurred on the 7th, 17th, and 31st.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 8, which was 5 fewer than normal; partly cloudy, 11, or normal; cloudy, 12, or 5 more than normal. The per cent. of possible sunshine approximated 51, which was considerably below normal.

## MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.07 inches, which was .07 inch above normal. The pressure ranged from 30.35 inches to 29.66 inches.

The mean stage of the Delaware River at Phillipsburg was 2.6 feet, the highest stage being 4.7 feet on the 19th. At Trenton the mean daily stage was 2.0 feet, which was 1.0 foot above normal; the highest stage was 3.2 feet on the 18th.

Hail occurred at South Orange and Burlington on the 31st, with but little material damage. Solar halos were observed on the 3d, 4th, 5th, and 26th. Thunderstorms occurred on the 1st, 2d, 6th to 18th, inclusive, 22d, 28th, 29th, 31st.

Dense fog occurred on the 6th, 7th, 11th, 12th, 13th, 15th to 18th, 21st and 22d.

## ERRATA.

October, 1919: Page 76:—Hightstown, mean temperature should read 59.6° instead of 58.8°. Page 78. Hightstown, mean maximum temperature should read 69.2° instead of 67.5°, and the maximum temperature on the 28th should be omitted.

May, 1920: Page 36:—Indian Mills, mean temperature should read 57.4° instead of 57.8°.

July, 1920: Page 52:—Elizabeth, mean temperature should read 72.4° instead of 72.2°b. Number of clear days, 15, partly cloudy, 14, and cloudy, 2. Page 54: Elizabeth, maximum temperature on the 10th should read 82°; and the 11th, 83°; minimum temperature on the 10th, 67°, and the 11th, 68°. Mean maximum temperature should read 84.6° instead of 84.7°b, and the mean minimum temperature should read 60.3° instead of 59.8°b.

## COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	71.7	95	40	6.11	10.09	3.47	.....	.....	.....	.....
1886.....	69.5	96	42	2.81	5.36	1.10	.....	.....	.....	.....
1887.....	70.4	94	42	3.76	7.34	2.09	.....	.....	.....	.....
1888.....	72.5	98	41	6.13	10.53	2.55	.....	.....	.....	.....
1889.....	69.6	91	45	5.13	9.06	1.93	.....	.....	.....	.....
1890.....	71.5	99	40	4.90	7.51	2.89	8	15	8	10
1891.....	72.8	100	46	5.32	8.89	2.58	8	11	12	13
1892.....	73.4	99	46	3.63	5.65	0.72	12	13	6	9
1893.....	72.8	98	38	6.52	11.94	3.55	14	11	6	8
1894.....	70.9	97	44	2.58	9.28	0.15	13	12	6	7
1895.....	74.2	102	34	2.53	5.06	0.02	16	12	3	7
1896.....	73.6	105	39	1.83	3.27	0.50	17	10	4	7
1897.....	71.0	91	41	4.39	8.69	2.07	14	12	5	9
1898.....	74.8	98	42	5.36	9.28	2.70	12	12	7	10
1899.....	72.3	99	39	4.36	9.70	2.16	10	12	9	9
1900.....	76.3	104	41	2.68	4.56	0.70	15	11	5	10
1901.....	73.8	98	44	9.43	15.80	4.88	12	10	9	11
1902.....	70.1	93	40	3.91	10.67	1.31	15	13	3	9
1903.....	68.4	98	39	6.95	14.54	4.30	10	10	11	13
1904.....	70.8	92	37	6.62	13.01	2.65	15	10	6	9
1905.....	71.1	95	38	5.72	9.88	3.51	13	10	8	12
1906.....	74.6	97	42	5.95	17.91	2.21	10	11	10	13
1907.....	70.5	96	39	3.45	7.61	1.79	14	12	5	10
1908.....	70.6	103	36	5.05	9.23	2.43	11	10	10	10
1909.....	70.2	100	34	4.59	12.94	1.41	14	9	8	6
1910.....	70.4	92	36	3.78	8.46	1.76	9	10	12	10
1911.....	72.1	101	39	8.91	14.74	5.31	10	11	10	11
1912.....	70.0	95	35	3.42	7.62	1.19	12	13	6	10
1913.....	71.7	100	38	4.06	10.21	1.93	18	9	4	10
1914.....	73.3	98	42	3.15	6.53	1.04	13	12	6	9
1915.....	70.9	98	41	7.73	10.92	4.02	11	11	9	13
1916.....	73.2	100	40	1.54	4.15	0.27	20	7	4	6
1917.....	74.0	103	41	2.21	5.68	0.86	18	9	4	8
1918.....	74.4	103	40	1.85	4.25	0.34	18	7	6	7
1919.....	69.9	98	38	6.89	12.88	3.09	13	10	8	13
1920.....	72.3	94	42	6.10	10.60	2.94	8	11	12	17



## Climatological data for August, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation, 0.1 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere.....	Warren.....	289	29	70.8	0.0	85	8†	50	3	27	4.66	-0.30	1.22	0	13	16	8	7	.....	Samuel J. Hixson.
Charlotteburg.....	Passaic.....	719	28	69.2 <sup>a</sup>	+1.5	87	8	42	4	37	4.05	-0.70	1.12	0	13	19	8	4	sw.	George S. Briggs.
Culvers Lakett.....	Sussex.....	848	19	70.4	+1.2	89	8	43	3	30	4.07	-0.46	0.80	0	19	15	9	7	e.	Brice E. Riker.
Dover.....	Morris.....	600	36	70.4 <sup>a</sup>	+1.2	89	8	49	4	32	5.17	+0.17	1.47	0	16	1	17	13	.....	William C. Harris.
Layton.....	Sussex.....	480	20	70.7	+2.3	89	17	47	3	33	4.21	+0.57	1.48	0	15	11	9	11	sw.	A. M. Depue.
Newton.....	Sussex.....	769	39	69.8	0.0	85	17	50	3	25	6.22	+1.81	2.09	0	20	8	8	15	sw.	Irving G. Kern.
Phillipsburg.....	Warren.....	363	38	72.1	+0.4	90	17	52	3	28	8.26	+3.56	2.07	0	16	13	6	12	sw.	D. Wilson Smith.
Sussex.....	Sussex.....	442	29																	Rev. W. August George.
Means and extremes.....				70.4	+0.9	90	17	42	4	37	5.23	+0.66	2.09	0	16	12	9	10	sw.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point††.....	Hudson.....	37	23	73.4 <sup>a</sup>	+1.7	88	8†	56	3	22	6.79	+1.73	1.67	0	13	5	5	21	sw.	William H. Mitchell.
Boonton.....	Morris.....	400	30	70.9 <sup>a</sup>	.....	86	12	49	3	25	5.24	+0.85	1.96	0	17	20	8	3	sw.	J. W. Demmers.
Chatham.....	Morris.....	330	18	73.4	-0.1	91	8	51	3	33	5.07	+0.15	1.02	0	18	14	7	10	sw.	Paul Molitor, Sr.
Elizabeth.....	Union.....	45	41	73.4	-0.1	91	8	51	3	33	2.94	-1.60	0.81	0	14	10	14	7	sw.	L. B. Bonnett.
Flemington.....	Hunterdon.....	140	31	73.1	+1.3	92	17	53	3	29	5.03	+0.62	0.85	0	19	10	10	11	e.	Hiram E. Deats.
Highwood.....	Bergen.....	90	32	71.2	0.0	86	8	52	3†	25	6.73	+1.66	2.42	0	18	6	14	11	sw.	Charles J. Bates.
Jersey City.....	Hudson.....	10	21	73.9	+0.6	90	8	57	3	26	4.31	-0.34	0.90	0	14	4	19	8	sw.	S. K. Pearson, Jr.
Kearny.....	Hudson.....			73.9	.....	93	17	55	3	30	4.43	.....	1.70	0	12	0	15	16	sw.	Wm. J. Chandler, M. D.
Lambertville.....	Hunterdon.....	80	33	70.8 <sup>b</sup>	-1.6	84	17	51 <sup>b</sup>	3	23	9.45	+4.69	1.96	0	14	.....	.....	.....	sw.	Thomas R. Hunt.
Little Falls.....	Passaic.....	180	17	74.3	.....	94	17	54	3	33	9.74	+4.63	1.83	0	18	10	13	8	e.	Montclair Water Co.
Newark.....	Essex.....	159	78	73.3	+0.7	90	17	57	3	22	4.36	-0.88	1.70	0	15	5	18	8	sw.	Prof. William Wiener.
New Brunswick.....	Middlesex.....	110	67	72.0	-0.4	89	17	51	3	30	8.21	+3.12	2.39	0	20	6	16	9	sw.	N. J. Experiment Station.
New Milford††.....	Bergen.....		1								1.44	.....	1.11	0	15	.....	.....	.....	.....	Hackensack Water Co.
Paterson.....	Passaic.....	80	49	74.0 <sup>1</sup>	+2.0	90	8†	.....	.....	25	5.54	+0.41	0.95	0	16	1	5	25	sw.	Marion T. Probert.
Plainfield.....	Somerset.....	100	33	71.6	-0.5	94	17	50	3	31	5.65	+0.78	1.21	0	17	5	16	10	e.	E. D. Pearson.
Ridgefield††.....	Bergen.....	70	5	71.9	.....	87	8†	52	3	28	5.99	.....	1.91	0	15	9	15	7	sw.	George P. Kirsten.
Somerville.....	Somerset.....	60	38	73.0	+1.1	88	7†	54	3	26	6.74	+2.03	1.94	0	17	9	9	13	w.	Peter V. D. Hardcastle.
South Orange.....	Essex.....	200	50	72.0 <sup>†</sup>	+1.3	88	17	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	Wm. H. Meeder.
Woodcliff Lakett.....	Bergen.....		1								3.96	.....	0.91	0	10	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.....		365	50	72.8	+0.6	85	17	57	3	19	4.91	+0.38	1.31	0	14	1	11	19	s.	U. S. Weather Bureau.
Means and extremes.....				72.7	+0.5	94	17	49	3	33	5.87	+1.28	2.42	0	16	8	12	11	sw.	
<i>The Southern Interior.</i>																				
Bridgeton.....	Cumberland.....	30	39	74.8	-0.3	92	16†	54	3	26	5.94	+1.20	1.00	0	18	11	9	11	sw.	Henry A. Jorden.
Burlington.....	Burlington.....	12	34	75.1	+1.7	91	17	54	3	27	9.25	+3.64	2.25	0	21	18	5	8	sw.	D. S. B. McCoy.
Camp Dix.....	Burlington.....		2	73.2 <sup>a</sup>	.....	91	17	53	3	28	8.71	.....	2.31	0	24	1	0	30	ne.	U. S. Army.
Clayton.....	Gloucester.....	126	28	73.6	+0.1	92	17	52	4	26	8.06	+2.91	1.99	0	17	8	9	14	sw.	Marvin E. Porch.
Hammonton.....	Atlantic.....	103	18								5.14	+0.46	1.21	0	17	7	19	5	sw.	G. H. Parkhurst.
Hightstown.....	Mercer.....	120	27	72.4	+0.5	89	17	52	3†	32	7.27	+2.50	2.65	0	17	10	8	13	sw.	E. H. Savige, Jr.
Inlaytown.....	Monmouth.....	185	31	74.8 <sup>1</sup>	+1.7	91	17	51	3†	29	5.81	+0.95	0.95	0	.....	.....	.....	.....	.....	Wm. R. Hendrickson.
Indian Mills††.....	Burlington.....	76	31	72.7	-0.4	92	17	50	3	30	7.38	+2.21	3.15	0	21	3	13	15	sw.	James M. Armstrong.
Lakewood.....	Ocean.....	54	17	72.1	+1.4	87	8†	51	4	25	5.94	+0.87	1.15	0	22	4	12	15	sw.	R. W. Holman.
Moorestown.....	Burlington.....	75	58	74.6 <sup>b</sup>	+2.1	91	17	52	4	29	10.60	+5.86	3.14	0	20	1	25	5	s.	Stokes Seed Farms Co.
Northfield.....	Atlantic.....	25	13								4.17	-0.58	1.10	0	18	.....	.....	.....	.....	William L. Flick.
Pleasantville††.....	Atlantic.....	26	22								5.05	+0.36	1.57	0	17	15	5	11	.....	Lincoln Van Gilder.
Trenton.....	Mercer.....	190	49	72.4	-0.6	88	17	55	3	23	7.08	+1.71	1.40	0	19	3	9	19	e.	U. S. Weather Bureau.
Tuckerton.....	Ocean.....	23	27	74.2	+2.0	92	31	51	3	30	4.75	-1.03	1.07	0	19	8	14	9	se.	Frank R. Austin.
Vineland††.....	Cumberland.....	109	52	76.2 <sup>c</sup>	+2.6	93	17	53	3	30	.....	.....	.....	0	.....	.....	.....	.....	.....	H. C. Himes.
Woodbine.....	Cape May.....	43	29								7.31	+2.70	2.11	0	18	3	6	22	e.	Jos. H. Cohen.
Philadelphia, Pa.....		117	50	74.2	+0.4	88	31	58	3	29	.....	.....	.....	0	.....	.....	.....	.....	.....	U. S. Weather Bureau.
Means and extremes.....				73.6	+0.8	92	16†	50	3	32	6.80	+1.62	3.15	0	19	7	11	13	sw.	
<i>The Sea Coast.</i>																				
Asbury Park.....	Monmouth.....	22	31	70.2 <sup>a</sup>	-1.7	84	7†	50	3	21	6.19	+1.05	1.21	0	19	10	10	11	ne.	Information Bureau.
Atlantic City.....	Atlantic.....	16	47	69.6	-3.0	88	31	56	3	17	5.65	+1.35	1.36	0	19	7	10	14	sw.	U. S. Weather Bureau.
Cape May City.....	Cape May.....	17	36	70.5	-2.9	88	31	59	3	17	7.78	+3.52	2.82	0	19	6	5	20	s.	U. S. Weather Bureau.
Long Branch.....	Monmouth.....	25	13	70.8	-0.6	90	31	58	3	23	6.04	+0.94	0.99	0	20	5	18	8	s.	William D. Martin, Jr.
Sandy Hook.....	Monmouth.....	22	22	72.6	-0.1	86	8	60	3	17	5.33	+0.48	1.26	0	19	0	17	14	ne.	U. S. Weather Bureau.
Means and extremes.....				70.7	-1.7	90	31	50	3	23	6.20	+1.47	2.82	0	19	6	12	13	s.	
For the State.....				72.3	+0.3	94	17	42	4	37	6.10	+1.31	3.15	0	17	8	11	12	sw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



## Daily precipitation for August, 1920.

Stations.	Watershed.	Day of month.																															Total.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>The Highlands and Kittatinny Valley</i>																																	
Lyndere.....	Delaware.....					.15	.25				.29	.20	.85	.18	.08	.21	.92	1.22											.18	.07		.06	4.66
Marltonburg.....	Passaic.....	.49			.26	.08			.06	.39	.72	.23		1.12	T.	.17		.14		.19			.15								.05		4.05
Alvers Lako.....	Delaware.....	.80			.10	.36			.05	.07	.56	.01	.49	.59	.01	.05	T.	.05	.40			T.	.42	.03		.01			.02	.04	.01		4.07
Over.....	Passaic.....	.57				.33	.15			.76	.04		.82	.33		.05	.02	1.47	.16			.34			.03				.04	.02		.04	5.17
Lynton.....	Delaware.....	.24				.37	1.48			.09	.33		.16	.25		.08	.06	.10	.05				.84						.04	.08	.04		4.21
Newton.....	Delaware.....	.53	.02			.12	.05			.10	1.02	.03	.66	.68	.09	.09	2.09	.08	.26	.02		T.	.15	T.					.05	.03	.02	.13	6.22
Phillipsburg.....	do.....	.09			.34	.33			T.	.09	.93	.01	.97	.50	.03	2.05	.45	2.07				.08	.02						.20		T.	.10	8.26
Essex.....	Hudson.....																																
<i>The Red Sandstone Plain.</i>																																	
Bergen Point.....	Coast.....	.44	.30			.30	.80			.20	1.35	.05	.20	.43		1.67		.85	.12			.08				T.					T.	T.	6.79
Bonton Ill.....	Passaic.....	.50	.03			.38	.07	.59		.24	.44	T.	.73	.47	.34	T.	.05	1.96	.08	T.			.15			.02				.01	.18	T.	6.24
Matham Ill.....	do.....	.02				.39	1.02		.12	.61	.08	.30	.39	.26	T.	.05	1.02	.13	.01			.26	.02		.08			.03	T.	T.	.28		5.07
Elizabeth.....	Coast.....	* .35				.60	.51			* .81	.12	.04	.12	.04	T.			.13				.15	.05	T.		.02						T.	2.94
Emmington.....	Raritan.....	.50	.06			.30	.10	T.		.25	.84	.85	.65	.41	.01	.09	.03	.44	T.			T.	.07			.04			.17	.04	.09	.09	5.03
Highwood.....	Hackensack.....	.52	.01			.40	.63		.02	.78	.51	.04	.57	.10	.39	1.81	.61	.18	T.			.03	.06			.05				.02		T.	6.73
Mersey City.....	Coast.....	.20	.10			.46	.85	T.		.30	.72		.20	.10	.10	.90	.05	.29			.01	T.	T.		T.						T.	.03	4.31
Mersey City.....	Coast.....	.40				.25	.35			.15	1.70	T.	.15		.35	T.	.67	T.			.08				.02				.05	T.	.26		4.43
Montville.....	Delaware.....	1.33				.61	.58			* 1.22	1.30	.14	1.53			*	.23	.16	T.				T.	1.96		T.			*	.39	T.		9.45
Little Falls, Ill.....	Passaic.....	.77	.03			.36	.18	.69		.21	.60	.05	.59	1.47	.97	.01	1.46	.46	.02			.02			.02						1.83	T.	9.74
Marwick**.....	Coast.....	.23	.04			T.	.37	.25		1.70	.38	.18	.24	.10	.11		.38	.05				.08			.03				T.	T.	.22		4.36
Marwick**.....	Raritan.....	.68				1.53	.37			.13	.73	.80	.14	.31	.10	.24	.11	2.30	.01			.01	.06	.38		.13	T.		.02	.11		.05	8.21
Marwick**.....	Hackensack.....	.03	.07			.36	.38			.28	.24	.01	1.08	.45	.09	1.11	.22	.01			.09				.02								4.44
Marwick**.....	Passaic.....	.43				.35	.25			.22	.46		.94	.95	.33	.02	.86	.20	.02		T.	.05			.02				.02	.42	T.		5.54
Marwick**.....	Raritan.....	.25				.35	.85			.54	1.08	.09	.18	.61				1.21	.03		.18	.03	T.	.01	.03			.07	.01	T.	.13		5.65
Marwick**.....	Hackensack.....	.42				.44	.02		T.	.50	.98	.16	.18	1.38	.53	.43	.17	T.			.10				.02					.23	T.	.43	5.99
Marwick**.....	Raritan.....	.65	.05			.40	1.12			.25	1.25	.15	.05	.37		.15		1.94			T.	.10		.07					.05	.07	.02	.05	6.74
Marwick**.....	Rahway.....									2.14				*	T.	.02	.62	.07			.20		.02		.09				.01	T.	.02	.22	\$
Marwick**.....	Hackensack.....	.04				.35	.46			.55	.15		.77	.25	.33	.91	.15																3.96
Marwick**.....	Coast.....	.05	.23			T.	.55	.77	T.		.66	.65		.21	.10	.11	1.15	.28	.04			.02			T.		T.		T.		T.	.09	4.91
<i>The Southern Interior.</i>																																	
Marwick**.....	Coast.....	.48				.35	.05	.17	.05		.21	.35		.50	.15	.85	T.	.35		.43	1.00	.30	.05	.05	.06				.54				5.94
Marwick**.....	Delaware.....	.42	.05			* 1.16	.70	1.04	.14	* 2.25	.21	.12	.23	.61	.10		.57			.20		.57		.18					.30	.02		.38	9.25
Marwick**.....	Delaware.....	.22	.03			1.30	.46	.57		.12	.78	.05	.05	.18	.04	.04	.17	2.31	.21	.02	.05	.22	.81	.10	.22				.37	.02		.37	8.71
Marwick**.....	Maurice.....	.29	.27			T. 1.81		.07	.48	.24	1.12		.07		.36		.39	.11	T.	.18		1.99	.07	.16	.02				.43				8.06
Marwick**.....	Mullica.....	.36				* 1.21	.06	T.	.03		.56		.07	.44	.04	.08	T.	.40	.88	T.	.51	.01	.08	.04	.05				.35	T.		.04	5.14
Marwick**.....	Raritan.....	.40				1.40	.77	.07	T.	T.	1.00	.11	.12	.18	.05	.07	.02	2.65	T.		.15		.05		.12				.08	T.	T.	.03	7.27
Marwick**.....	Delaware.....	.27	.04			.85	.62	.39	.03	.03	.69	.90	.03	.30	.09	.03	.08	.95											.50			.01	5.81
Marwick**.....	Mullica.....	.24	.19			T. 3.15	.12	.05	.02	T.	.87	.03	.33	.10	.10	.09	.02	.70	.12		.16		.60		.12	.03			.32	.02			7.38
Marwick**.....	Metedeconk.....	.19	.06			1.15	.15	1.10	T.	.07	.43	.24	.12	.17	.02	1.05	.04	.24	.03		.11	.03	.37	.12	.05				T.	.12	T.	.02	5.94
Marwick**.....	Delaware.....	.17	.09			1.12	.58	.35		.02	3.14	2.05	.04	.06	.07	.10	1.42	.03		.02	.03	.49		.21				.37					10.60
Marwick**.....	Coast.....	.15	.15			.03	.34	.05			.21		.13		.13	.05	.50	.15	.29		.28		.54	1.10		.01			.04	.02			4.17
Marwick**.....	Coast.....	.13	.12			.08	.20	.02		T.	.27	.03	.04		.15	.21	.07	.92	.20		.19		1.57	.83					.02	T.			5.05
Marwick**.....	Delaware.....	.18				.06	1.19	.81		.13	.97	1.07	.56	.01	.03	T.	.03	.94	.04	T.	T.	.06	.55		T.	.19			.18	.03	T.	.05	7.08
Marwick**.....	Coast.....	.08	.06			.07	.39		.06		1.07	.05	.11		.02	.41	.22	.80	.12		.03		.27	.66		.06			.02	.25			4.75
Marwick**.....	Maurice.....																																
Marwick**.....	Coast.....																																
Marwick**.....	Delaware.....	.04				.57	.68	.28		.16	1.83	.86	.02	.01	.84		.02	.15	1.20	T.	T.	.11	.05		T.	.25			.23	.01			7.31
<i>The Sea Coast.</i>																																	
Marwick**.....	Coast.....	.17				1.21			.08	.08	.58	.02	.25	.31		.31	.03	.60			.07	.98	.98	.10	.07				.03	.07		.25	6.19
Marwick**.....	do.....	.13	T.			.12	1.27	.01		.07	.09	.06	T.	T.	.74	.86	.16	.55	.09	T.	.27		.65	.32	T.	.01			.01	.22		.02	5.65
Marwick**.....	do.....		.22			.07	2.82	.12		T.	.14	.17		.12	.01	.59	.84	.01	.15	1.36	.20	.18		.03	.22				.52	.01			7.78
Marwick**.....	do.....	.03				.29	.09		.57	.66	.16	.02	.77	.22	.10	.57	.87	.10			.12	.07	.50	.70	.10				.07			.03	6.04
Marwick**.....	do.....	.03				.02	.32	.04		.04	.28	.67	.02	.60	.11	.05	1.03	1.22	.04		.02	T.	.01	.13	.09				T.	T.	.01	T.	5.33

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.

|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.

\* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.			Moisture.		Sun- shine	
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine.
							Miles per hour.	Direction.	Date.			
Atlantic City.....	30.06	30.29	19	29.71	31	7	20	ne.	4	89	90	44
Brooklyn.....	30.09	30.27	27	29.78	31	7	22	ne.	4	91	91	.....
Long Branch.....							51	sw.	9			
Newark.....							30	nw.	31	75*	70†	46
New York, N. Y.....	30.06	30.36	19	29.68	31	11	56	nw.	31	83	76	57
Philadelphia, Pa.....	30.08	30.33	19	29.69	31	8	26	s.	14	86	80	48
Pittsfield.....												
Sandy Hook.....	30.07	30.35	19	29.66	31	11	43	nw.	17	88	86	55
Wilmington.....	30.06	30.34	19	29.69	31	9	37	w.	7	87	80	54



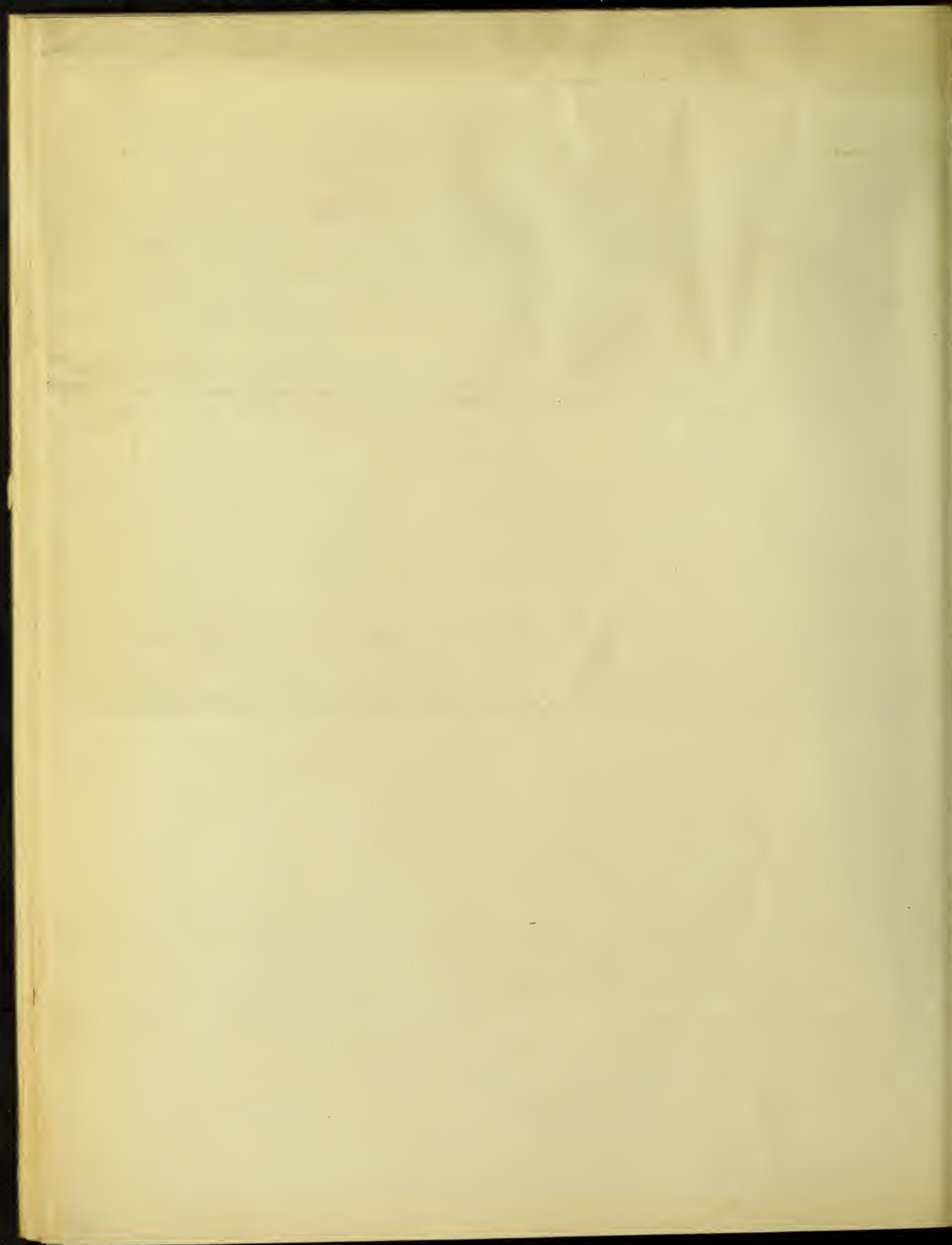
## Daily temperatures for August, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.	
<i>The Highlands and Kittatinny Valley</i>																																	
Belvidere.....	Maximum...	73	75	77	79	82	85	88	85	83	82	84	82	83	82	80	85	81	74	75	77	80	78	75	77	80	80	78	75	77	80	80	79.5
	Minimum...	61	51	50	53	55	65	68	62	62	70	70	68	68	70	72	70	67	65	56	57	69	59	60	57	53	53	56	59	63	65	62.1	
Charlotteburg.....	Maximum...	76	77	76	79	81	78	82	87	85	83	84	85	84	84	80	78	83	81	77	78	79	79	75	76	79	79	80	75	79	78	79.9	
	Minimum...	60	55	47	42	47	58	65	62	59	66	68	65	66	67	66	67	65	60	49	57	66	62	53	54	50	44	57	57	66	58.6		
Dover.....	Maximum...	78	76	80	78	84	72	83	89	86	82	84	88	85	82	82	82	87	81	73	71	73	79	79	73	79	78	68	77	85	82	79.9	
	Minimum...	61	56	50	49	53	63	67	63	54	69	68	62	69	69	71	69	67	59	53	60	65	59	58	59	56	55	51	60	62	62	61.0	
Layton.....	Maximum...	75	75	80	81	83	75	84	86	85	84	85	86	84	84	84	84	89	78	76	77	79	79	79	83	82	82	80	81	87	83	81.6	
	Minimum...	59	54	47	48	55	61	64	58	64	70	67	62	64	67	68	70	67	66	55	50	59	63	53	53	60	51	50	58	56	60	59.8	
Newton.....	Maximum...	78	73	74	78	80	78	80	83	83	81	81	81	81	82	79	81	85	81	72	73	75	78	73	73	78	77	79	71	78	82	80	78.3
	Minimum...	59	55	50	55	55	60	67	61	64	69	68	61	67	68	71	72	64	65	61	55	60	68	57	56	63	57	54	56	58	64	61	61.3
Phillipsburg.....	Maximum...	73	78	80	80	84	76	85	88	87	85	86	88	84	87	82	82	90	82	77	76	79	81	79	75	81	83	82	87	85	81	81.7	
	Minimum...	62	57	52	55	57	65	67	63	64	70	66	63	67	72	72	70	69	68	60	58	63	62	58	61	62	57	54	56	59	65	64	62.5
Sussex.....	Maximum...																																
	Minimum...																																
<i>The Red Sandstone Plain.</i>																																	
Bergen Point.....	Maximum...	80	77	78	78	78	75	85	88	88	85	83	87	85	87	84	86	81	77	76	76	83	77	74	78	80	80	80	87	88	81.4		
	Minimum...	64	62	56	59	60	65	67	66	69	69	69	65	71	70	72	71	71	67	64	61	67	64	61	62	64	60	64	66	72	65.5		
Boonton§§.....	Maximum...	86	82	84	82	86	83	87	91	90	85	86	90	88	88	83	86	90	79	77	74	77	82	82	74	79	80	80	86	89	83	80.3	
	Minimum...	64	61	51	54	56	64	64	61	66	70	70	64	71	70	72	72	70	67	64	57	62	62	62	60	55	55	61	65	69	63.5		
Elizabeth.....	Maximum...	81	86	81	78	85	78	86	88	87	85	86	88	84	86	82	82	82	83	74	71	75	84	83	74	80	81	84	74	79	87	85.2	
	Minimum...	64	59	53	55	58	55	69	66	65	70	71	65	70	72	72	71	69	65	58	63	70	61	64	64	60	55	57	62	64	68	64.0	
Flemington.....	Maximum...	81	75	76	76	79	74	83	86	84	79	80	84	85	81	80	82	84	80	72	75	80	77	71	74	76	78	73	76	82	84	78.8	
	Minimum...	64	59	53	55	58	55	69	66	65	70	71	65	70	72	72	71	70	64	55	62	67	61	58	60	60	53	52	54	64	68	63.5	
Highwood.....	Maximum...	80	78	82	81	80	74	87	90	88	82	84	89	86	84	83	86	89	80	78	76	76	85	76	75	80	82	80	78	82	86	89.2	
	Minimum...	65	61	52	57	57	64	68	65	70	71	70	64	70	72	72	71	70	64	55	62	67	61	58	60	60	53	52	54	64	68	63.5	
Jersey City.....	Maximum...	80	78	82	81	80	74	87	90	88	82	84	89	86	84	83	86	89	80	78	76	76	85	76	75	80	82	80	78	82	86	89	82.1
	Minimum...	66	63	57	61	62	66	67	68	71	69	70	67	72	72	72	74	73	71	70	64	57	61	70	63	62	64	62	58	62	68	70	
Kearny.....	Maximum...	72	74	76	76	77	80	82	83	83	80	80	81	81	82	82	82	84	80	73	71	76	81	77	73	76	70	77	72	78	83	82	78.3
	Minimum...	66	63	57	61	62	66	67	67	69	71	71	65	71	72	72	72	71	69	66	58	62	66	63	61	55	55	61	63	69	64.5		
Lambertville.....	Maximum...	81	80	87	85	87	77	85	89	88	87	90	92	88	84	85	86	94	83	79	80	79	82	84	83	84	81	84	75	80	86	83	84.1
	Minimum...	66	62	54	55	58	65	67	67	69	71	71	65	71	72	72	71	69	66	58	62	66	63	61	55	55	61	63	69	64.5			
Little Falls.....	Maximum...	77	78	79	79	81	72	87	89	88	82	85	88	84	84	81	85	90	78	76	72	73	82	71	72	79	78	79	72	78	90	86	80.5
	Minimum...	66	63	57	61	65	65	68	69	72	72	71	67	72	72	73	73	72	69	64	59	62	68	61	62	64	60	59	63	68	68	66.1	
Newark.....	Maximum...	84	76	77	79	81	75	84	86	85	84	83	86	84	86	85	82	89	86	72	69	74	82	71	71	73	78	75	76	81	86	79.9	
	Minimum...	65	61	51	56	59	64	67	56	69	71	70	65	69	70	72	72	68	64	57	63	69	61	62	63	62	58	57	62	65	68	64.1	
New Brunswick.....	Maximum...	81	78	81	80	83	77	85	90	89	85	85	87	86	83	82	84	90	85	75	73	76	82	78	76	81	81	82	77	78	86	86	82.0
	Minimum...	63	63	55	55	60	64	69	67	70	71	72	67	71	72	72	71	73	67	57	61	69	61	69	61	69	62	64	66	63	68	66.0	
Paterson.....	Maximum...	77	78	81	78	83	76	86	87	89	87	89	90	91	90	88	85	94	83	81	79	80	84	77	75	79	79	80	71	80	87	82.9	
	Minimum...	63	58	50	55	56	63	61	67	64	65	67	63	65	65	63	61	65	60	54	51	52	56	62	60	62	60	55	54	60	63	60.2	
Plainfield.....	Maximum...	77	78	80	77	81	74	85	87	86	82	83	87	84	84	84	85	87	77	73	74	82	75	75	77	77	79	75	76	85	85	80.1	
	Minimum...	64	61	52	56	56	64	68	65	70	71	70	64	70	71	73	70	69	69	64	55	62	65	61	59	60	55	58	62	66	69	63.7	
Ridgefield.....	Maximum...	75	78	80	80	84	78	88	88	86	85	82	86	84	86	81	82	88	82	78	72	78	80	74	75	74	82	82	70	80	85	88	80.9
	Minimum...	63	60	54	56	58	66	68	66	68	71	72	66	72	70	73	72	72	68	66	62	64	70	62	63	64	60	56	62	67	83	83	80.0
Somerville.....	Maximum...	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86.0
	Minimum...	62	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66.0
South Orange.....	Maximum...	77	76	76	81	78	72	84	85	85	80	82	85	83	83	81	85	85	80	74	72	75	82	74	72	72	77	74					











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NJ  
U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

# CLIMATOLOGICAL DATA

NEW JERSEY SECTION

SEPTEMBER, 1920.

BY

G. HAROLD NOYES

METEOROLOGIST



TRENTON, N. J.  
WEATHER BUREAU OFFICE  
OCTOBER 21, 1920.



Departure of the Mean Temperature from the Normal, September, 1920.



Shaded portions show excess (+).  
Unshaded portions show deficiency (-).  
Lines show amount of excess or deficiency.

Scale Miles  
Kilometers



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., SEPTEMBER, 1920. No. 9.

GENERAL SUMMARY.

The weather of September was a very agreeable contrast with that of the preceding month. There was a slight excess of warmth, sunshine and clear skies, above normal conditions, and a deficiency of rain and wind, except that excessive rain fell in the The Kittatinny Highlands. There was one long period, from the 12th to the 25th, practically without rain. The first cold weather of autumn occurred on the 20th, when temperatures of 30° with killing frost, occurred in some portions of extreme northern districts and light frost in the interior of southern portions. This, in turn, was followed by warmer weather, and the 25th was one of the warmest days of the month. By far the greatest amount of monthly rain occurred on the 30th, the record of some of which is recorded on October 1st; except for this rainstorm, the monthly deficiency would have been considerably in excess of an inch.

The effect of weather on crops was altogether favorable, vegetation advanced to maturity without hindering circumstances, and yields were generally indicative of fine quantity and quality.

Storm warnings were displayed along the coast on the 30th.

TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 36 stations, was 66.8°, which was 1.0° above the normal. The highest temperature was 90° at Flemington on the 12th, Somerville and Vineland on the 24th, and Sussex on the 25th; and the lowest, 30° at Charlotteburg, Culvers Lake, and Layton on the 20th. The highest monthly mean temperature was 70.2° at Vineland, and the lowest, 63.1° at Charlotteburg. The greatest daily range of temperature was 42° at Indian Mills on the 20th.

The temperature departure from the normal for the year 1920 to date, by sections, is: The Highlands, -1.6°; Red Sandstone Plain, -1.4°; Southern Interior, -1.2°; Sea Coast, -1.8°.

PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 44 stations, was 3.87 inches, which was 0.18 inch below the normal. The greatest monthly rainfall was 8.53 inches at Culvers Lake, and the least, 1.67 inches at Hammonton. The greatest amount of rain in any 24 consecutive hours was 4.00 inches at Charlotteburg on the 30th. The mean of the number of days on which 0.01 inch or more of rain fell was 7, or one less than the normal.

WIND.

The prevailing wind direction was from the northwest, with an approximate velocity of 9 miles an hour, which was about

the normal. The highest velocity, sustained for five consecutive minutes, was 70 miles per hour from the southeast on the 30th at Long Branch. There were high winds on the 1st, 15th, 16th and 19th.

SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 17, which was 3 more than the normal; partly cloudy, 8, or 1 less than the normal; cloudy, 5, or 2 less than the normal. The approximate percent of possible sunshine was 68, which was probably normal.

MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.01 inches, which was 0.06 inch below the normal. The highest reading was 30.35 inches at Ridgefield and Sandy Hook on the 22d, and the lowest, 29.14 inches, at Atlantic City and Sandy Hook on the 30th.

The mean stage of the Delaware River at Phillipsburg was 2.5 feet, and the highest, 6.0 feet on the 13th. At Trenton the mean stage was 1.6 feet, which was 0.5 foot above the normal. The highest stage, 2.9 feet, occurred on the 14th.

Thunderstorms occurred in some portions of the State on the 9th, 10th, 11th, 12th, 26th, 27th, 28th, 29th, and 30th. Dense fog occurred on the 4th, 5th, 9th, 22d, 23d, 24th, 25th, 26th, 27th, and 29th. Smoke was noted on the 7th, and haze on the 4th. Frost formed in all counties, excepting Cape May, on the 20th, but no appreciable damage was reported. A lunar halo was observed on the 23d, and a solar halo on the 17th. The aurora was noted on the 10th.

COMPARATIVE DATA FOR SEPTEMBER.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	64.2	93	38	0.83	1.69	0.25	.....	.....	.....	.....
1886.....	66.9	95	36	1.13	1.76	0.86	.....	.....	.....	.....
1887.....	61.6	90	30	3.66	6.25	1.62	.....	.....	.....	.....
1888.....	63.1	84	29	7.09	10.65	3.75	.....	.....	.....	.....
1889.....	64.8	90	34	8.36	13.13	3.17	.....	.....	14	12
1890.....	64.4	91	33	4.75	8.61	2.59	10	10	10	10
1891.....	68.7	95	39	2.46	5.91	0.90	16	9	5	6
1892.....	64.2	90	33	1.81	3.78	1.02	15	11	4	6
1893.....	62.7	90	31	3.20	5.38	1.93	12	10	8	8
1894.....	68.8	97	31	7.46	11.65	3.69	10	10	10	8
1895.....	69.7	109	29	1.07	2.71	0.22	17	10	3	5
1896.....	65.1	95	30	4.37	8.74	2.26	19	7	4	5
1897.....	65.5	99	30	1.65	3.97	0.21	19	7	4	5
1898.....	68.6	100	31	2.00	3.87	0.65	17	8	5	6
1899.....	61.4	93	30	5.88	9.61	2.88	15	9	6	9
1900.....	69.9	98	32	2.86	7.37	1.09	14	10	6	6
1901.....	65.8	94	29	3.38	6.82	1.63	15	9	6	10
1902.....	64.6	93	30	5.65	8.95	3.11	11	7	12	13
1903.....	65.0	92	29	3.34	7.10	1.39	17	8	5	7
1904.....	64.8	93	28	4.79	10.08	0.89	14	10	6	7
1905.....	65.4	90	28	5.23	9.18	2.87	16	7	7	8
1906.....	68.9	94	33	2.19	4.66	0.75	15	9	6	7
1907.....	67.1	92	31	8.08	12.95	3.55	10	8	12	14
1908.....	65.7	90	29	2.09	4.13	0.95	11	10	9	3
1909.....	64.5	89	30	3.30	4.58	2.08	11	10	9	8
1910.....	67.3	97	32	2.39	3.97	1.01	12	10	8	6
1911.....	66.4	90	30	2.88	5.33	1.08	10	12	8	9
1912.....	65.9	87	28	4.47	6.76	2.68	12	7	11	10
1913.....	64.4	96	27	3.87	6.55	1.56	13	8	9	9
1914.....	64.0	99	21	0.37	1.64	0.14	21	6	3	3
1915.....	68.5	97	30	2.08	4.46	0.55	17	9	4	5
1916.....	65.2	98	31	2.84	5.29	1.29	20	7	3	6
1917.....	61.5	87	25	2.74	6.13	0.47	16	7	7	6
1918.....	62.2	90	29	3.84	6.00	2.66	14	8	8	9
1919.....	65.8	96	30	3.26	6.28	1.04	16	6	8	8
1920.....	66.8	90	30	3.87	8.53	1.67	17	8	5	7



## Climatological data for September, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.						Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation in. or more.	Clear.	Pt. cloudy.			Cloudy.
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere††	Warren	289	29	.....	.....	.....	.....	.....	.....	.....	4.92	+1.00	2.05	0	7	.....	.....	.....	.....	Samuel J. Hixson.
Charlotteburg	Passaic	719	28	63.1	+0.8	84	25	30	20	40	7.56	+2.88	4.00	0	6	25	3	2	sw.	George S. Briggs.
Culvers Lake††	Sussex	848	19	.....	.....	.....	.....	.....	.....	.....	8.53	+4.72	2.90	0	10	19	8	3	se.	Brice E. Riker.
Dover	Morris	600	36	64.2	+1.6	87	12†	35	20	39	4.97	+0.49	1.60	0	11	5	21	4	.....	William C. Harris.
Layton	Sussex	480	20	64.6	+2.8	86	26	30	20	41	7.63	+3.76	2.21	0	10	20	3	7	s.	A. M. Depue.
Newton	Sussex	769	39	64.6	+1.0	82	25†	38	20	30	7.02	+3.34	2.41	0	11	17	7	6	w.	Irving G. Kern.
Phillipsburg	Warren	363	38	65.6	+0.2	86	12	37	20	34	4.21	+0.43	2.39	0	8	20	6	4	s.	D. Wilson Smith.
Sussex	Sussex	442	29	66.4 <sup>d</sup>	+2.5	90	25	.....	.....	.....	7.76	+3.85	2.25	0	8	.....	.....	.....	.....	Rev. W. August George.
Means and extremes				64.8	+1.5	90	25	30	20	41	6.81	+2.78	4.00	0	9	18	8	4	s.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point††	Hudson	37	23	67.8 <sup>b</sup>	+1.1	86	25	.....	.....	.....	2.82	-1.71	1.05	0	5	15	14	1	nw.	William H. Mitchell.
Boonton	Morris	400	30	64.6	.....	86	26	35	20	40	3.32	-1.17	0.94	0	9	24	4	2	nw.	J. W. Demmers.
Chatham	Morris	330	18	.....	.....	.....	.....	.....	.....	.....	5.93	+1.80	3.42	0	10	21	6	3	.....	Paul Molitor, Sr.
Elizabeth	Union	45	41	67.0	0.0	88	24	36	20	37	3.75	-0.31	2.66	0	6	20	6	4	w.	L. B. Bonnett.
Flemington	Hunterdon	140	31	68.2	+3.1	90	12	37	20	38	2.69	-1.29	1.46	0	4	22	5	3	nw.	Hiram E. Deats.
Highwood	Bergen	90	32	64.3	+0.1	81	12†	35	20	32	5.37	+1.21	2.40	0	8	13	10	7	nw.	Charles J. Bates.
Jersey City	Hudson	10	21	69.1	+1.9	87	12	45	20	28	3.21	-0.50	1.50	0	7	16	10	4	s.	S. K. Pearson, Jr.
Kearny	Hudson	.....	.....	68.2	.....	88	12	44	20	32	3.92	.....	2.41	0	6	6	18	6	.....	Wm. J. Chandler, M. D.
Lambertville	Hunterdon	80	33	.....	.....	.....	.....	.....	.....	.....	3.04	-1.14	2.60	0	4	.....	.....	.....	.....	Thomas R. Hunt.
Little Falls	Passaic	180	17	67.2	.....	87	12	39	20	35	4.18	.....	1.68	0	9	15	14	1	nw.	Montclair Water Co.
Newark	Essex	159	78	67.6	+1.7	86	12†	46	20	27	5.41	+1.56	3.55	0	10	16	8	6	nw.	Prof. William Wiener.
New Brunswick	Middlesex	110	67	67.0	+1.0	86	12	38	20	36	2.23	-1.62	1.46	0	7	17	10	3	nw.	N. J. Experiment Station.
New Milford††	Bergen	.....	1	.....	.....	.....	.....	.....	.....	.....	7.38	.....	3.39	0	8	.....	.....	.....	.....	Hackensack Water Co.
Paterson	Passaic	80	49	68.0 <sup>e</sup>	+1.8	87	12†	35	20	38	4.82	+0.38	2.70	0	7	5	1	24	nw.	Marion T. Probert.
Plainfield	Somerset	100	33	65.6	+0.4	87	12	36	20	38	2.76	-1.69	1.51	0	7	17	10	3	nw.	E. D. Pearson.
Ridgefield††	Bergen	70	5	64.9	.....	84	12†	36	20	33	4.62	.....	2.42	0	6	14	10	6	nw.	George P. Kirsten.
Somerville	Somerset	60	38	67.5 <sup>a</sup>	+2.2	90	24	37	20	38	3.12	-0.54	1.37	0	6	18	6	6	nw.	Peter V. D. Hardcastle.
South Orange	Essex	200	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	9	.....	.....	.....	.....	Wm. H. Meeder.
Woodcliff Lake††	Bergen	.....	1	.....	.....	.....	.....	.....	.....	.....	5.93	.....	2.70	0	9	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.	.....	365	50	67.4	+0.9	88	12	47	20	22	3.24	-0.35	1.83	0	8	13	10	7	nw.	U. S. Weather Bureau.
Means and extremes				66.9	+1.3	90	12†	35	20	40	4.08	-0.46	3.55	0	7	16	9	5	nw.	
<i>The Southern Interior.</i>																				
Bridgeton	Cumberland	30	39	68.0	-0.2	87	12†	39	20	34	2.33	-1.48	0.95	0	7	24	1	5	sw.	Henry A. Jorden.
Burlington	Burlington	12	34	69.2	+2.2	89	12	41	20	35	1.77	-2.15	0.95	0	7	24	3	3	sw.	D. S. B. McCoy.
Camp Dix	Burlington	.....	2	66.7	.....	86	24	38	20	34	3.98	.....	2.33	0	9	1	2	27	sw.	U. S. Army.
Clayton	Gloucester	126	28	66.9	+0.2	87	25	35	20	36	3.11	-0.91	1.65	0	7	16	4	10	sw.	Marvin E. Porch.
Hammonton	Atlantic	103	18	.....	.....	.....	.....	.....	.....	.....	1.67	-1.99	1.07	0	6	15	14	1	se.	G. H. Parkhurst.
Hightstown	Mercer	120	27	66.2 <sup>b</sup>	-0.4	85	24†	35	20	36	2.51	-1.37	1.40	0	6	19	5	6	nw.	E. H. Savige, Jr.
Imlaystown	Monmouth	185	31	66.9	+0.3	88	24	34	20	39	3.43	-0.45	1.26	0	10	21	6	3	se.	Wm. R. Hendrickson.
Indian Mills††	Burlington	76	31	67.0	+0.9	87	12†	32	20	42	2.07	-2.10	1.10	0	7	14	12	4	se.	James M. Armstrong.
Lakewood	Ocean	54	17	64.9	-0.5	83	12	35	20	38	2.39	-1.49	1.05	0	6	18	1	11	w.	R. W. Holman.
Moorestown	Burlington	75	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	6	.....	.....	.....	.....	Stokes Seed Farms Co.
Northfield	Atlantic	25	13	.....	.....	.....	.....	.....	.....	.....	1.90	-1.40	1.34	0	6	.....	.....	.....	.....	William L. Flick.
Pleasantville††	Atlantic	26	22	.....	.....	.....	.....	.....	.....	.....	2.06	-1.35	1.26	0	7	24	3	3	.....	Lincoln Van Gilder.
Trenton	Mercer	190	49	67.2	+0.3	85	12	44	20	27	2.23	-1.36	1.41	0	9	16	11	3	s.	U. S. Weather Bureau.
Tuckerton	Ocean	23	27	67.4	+1.4	88	27	32	20	41	1.86	-1.50	0.90	0	7	17	11	2	se.	Frank R. Austin.
Vineland	Cumberland	109	52	70.2 <sup>d</sup>	+3.3	90	24	40	20	38	3.80	-0.04	1.85	0	6	.....	.....	.....	.....	H. C. Himes.
Woodbine	Cape May	43	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	8	11	7	12	s.	Jos. H. Cohen.
Philadelphia, Pa.	.....	117	50	69.6	+2.2	84	24	48	20	24	3.42	-0.04	2.10	0	8	.....	.....	.....	.....	U. S. Weather Bureau.
Means and extremes				67.3	+0.8	90	24	32	20	42	2.51	-1.35	2.33	0	7	17	6	7	se.	
<i>The Sea Coast.</i>																				
Asbury Park	Monmouth	22	31	67.3 <sup>b</sup>	+0.4	83	13	43	20	28	2.76	-0.48	1.90	0	6	18	11	1	se.	Information Bureau.
Atlantic City	Atlantic	16	47	68.6	+1.0	87	12	48	20	23	1.69	-1.36	1.06	0	6	15	11	4	s.	U. S. Weather Bureau.
Cape May City	Cape May	17	36	69.5	+0.5	86	12	45	20	22	2.02	-0.98	1.99	0	6	17	2	11	nw.	U. S. Weather Bureau.
Long Branch	Monmouth	25	13	65.5	-0.5	84	12	40	20	30	5.67	+2.37	3.77	0	8	19	8	3	s.	William D. Martin, Jr.
Sandy Hook	Monmouth	22	22	67.6	+0.2	83	12	51	20	22	1.73	-2.31	1.23	0	7	12	13	5	sw.	U. S. Weather Bureau.
Means and extremes				67.7	+0.3	87	12	40	20	30	2.77	-0.55	3.77	0	7	16	9	5	s.	
For the State				66.8	+1.0	90	12†	30	20	42	3.87	-0.18	4.00	0	7	17	8	5	nw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayoune; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily precipitation for September, 1920.

Stations.	Watershed.	Day of month.																															Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>The Highlands and Kittatinny Valley</i>																																			
Belvidere.....	Delaware.....						1.00	.90			.89	.08										*											4.92		
Charlotteburg.....	Passaic.....	.17					1.58			.10	.99																		.32	.40	4.00		7.56		
Culvers Lake.....	Delaware.....						.98	1.35		1.22	.01		2.00					.01					.02						.01		2.90		8.53		
Dover.....	Passaic.....						*	1.32			1.10		.33					.01					.13				.06		.03	*		1.60		4.97	
Layton.....	Delaware.....						2.21	.77			.69	.05	1.57				.03					.05						.02		.40		2.21		7.63	
Newton.....	Delaware.....	T.					.58	1.73			1.14	.06	.74	T.								.17				.06	.10	.02	.01	T.	2.41		7.02		
Phillipsburg.....	do.....						.80	.03		.40	.20	.04					T.					T.							.33	.02		2.39		4.21	
Sussex.....	Hudson.....						.26	2.25			1.45	.05	1.70										.05								1.00	1.00		7.76	
<i>The Red Sandstone Plain.</i>																																			
Berren Point.....	Coast.....						T.	.43			1.01		.02									T.							.26	T.	1.05		2.82		
Boontou III.....	Passaic.....	T.						.38			.94	.02	.50						.01				.08	T.			T.			.04	.74	.61		3.32	
Chatham II.....	do.....						.19			.75		.02											.03			.01				.48	.91	3.42		5.93	
Elizabeth.....	Coast.....						T.	.35			.51	T.																	.23	*	2.66		3.75		
Flemington.....	Raritan.....						T.				.57		.09																					2.69	
Highwood.....	Hackensack.....	.04					T.	.06			.90	.01	1.11				T.					.07				T.		T.	.78	T.	2.40		5.37		
Jersey City.....	Coast.....						.01	.20			.90		.06				T.					.04				T.			.50		1.50		3.21		
Kearny.....	Coast.....						*	.16			.73	T.	.11				T.													.51	T.	2.41		3.92	
Lambertville.....	Delaware.....						.26				.18							T.												*		2.60		3.04	
Little Falls III.....	Passaic.....	.01					.18				1.20	.02	.57									.10									.41	1.68		4.18	
Newark**.....	Coast.....						.14	.20		.18	.54	.07	.11	T.															.37	.02	3.55		5.41		
New Brunswick.....	Raritan.....						.19				.30		.02									T.				.04		.23	.20	.02	1.46		2.23		
New Milford.....	Hackensack.....						.19		.03		.88		1.76									.18						.21	.74		3.39		7.38		
Paterson.....	Passaic.....						.10				1.00	.02	.62				T.									.14			.24		2.70		4.82		
Plainfield.....	Raritan.....						.03	.15		T.	.45		.01									.02							.59	T.	1.51		2.76		
Ridgefield**.....	Hackensack.....						.06			T.	.74	T.	.90									.09							.41		2.42		4.62		
Somerville.....	Raritan.....						.30				.55		.05				T.								.22			.63		1.37		3.12			
South Orange.....	Rahway.....						.08	.20			.33																						\$		
Woodcliff Lake.....	Hackensack.....						.10	.20		.08	.82		1.36									.16													
New York, N. Y.***	Coast.....						.01	.21		T.	.90	T.	.05				T.					.02				T.		T.	.36	.15	2.70		5.93		
<i>The Southern Interior.</i>																													.22	.04	1.79		3.24		
Bridgeton.....	Coast.....						.13			.05	.72		.15																.15		.95		2.33		
Burlington.....	Delaware.....						.18	.04		T.	.43		.04													T.	.13			*	.95		1.77		
Camp Dix.....	Delaware.....				.04		.18			.47	.13																			.57	.04	.06	.16	2.33	
Clayton.....	Maurice.....						.05	.14			.56																						3.98		
Flemington.....	Mullica.....						*	.17		T.	.33		.10												T.		.02	.61		.08		1.65		3.11	
Highstown.....	Raritan.....						.02	.20		T.	.70		.04																			*	1.67		
Maytown.....	Delaware.....						.05	.26			.66	.01	.10																		.15	1.40		2.51	
Indian Mills.....	Mullica.....						.03	.07		T.	.26		.10																					3.43	
Lakewood.....	Metedeconk.....						.12	.23		T.	.26		.22																.08	.43	1.10		2.07		
Loosestown.....	Delaware.....																												.51	T.	1.05		2.39		
Northfield.....	Coast.....						.03				.30		.10																						
Pleasantville.....	Coast.....						.02	.04		.01	.28		.26														.01		.12	T.	1.34		1.90		
Princeton***	Delaware.....						.09	.10		T.	.36		.09																	.19		2.06			
Ruckertown.....	Coast.....						.10			T.	.44		.07					T.				.02						.07	.08	.01	T.	1.41		2.23	
Shelton.....	Maurice.....						*				.43	.29																		.25	.03	.90		1.86	
Woodbine.....	Coast.....						.01	.37			.29	.03	.09													T.		1.11		.12	1.85		3.80		
Philadelphia, Pa.	Delaware.....					T.	.13	.01		T.	.70		.27														.10	.01		.10		2.10		3.42	
<i>The Sea Coast.</i>																																			
Asbury Park.....	Coast.....						.01	.40			.25		.20																						
Atlantic City***	do.....						.03	T.		T.	.24		.31													T.	.01	.01	.04		*		1.90		2.76
Cape May City.....	do.....						.05			.02	.41		.09																	.08		T.	1.06		1.69
Long Branch**.....	do.....						.01	.37			.29	.03	.09																	.21	.90	3.77		2.02	
Long Branch**.....	do.....						T.	.28			.17	.03	.01																	T.		.04	1.19		5.67
Long Branch**.....	do.....						T.	.28			.17	.03	.01																	.01	.04	1.19		1.73	

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.			Moisture.		Sun- shine.	
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.		Relative humidity, per cent. at 8 p. m.
							Miles per hour.	Direction.	Date.			
Atlantic City.....	30.01	30.28	22	29.14	30	7	37	se.	30	82	82	67
Camden May City.....	30.05	30.34	22	29.33	30	7	36	se.	30	81	79	67
Long Branch.....							70	se.	30	71*	63†	66
Newark.....							40	se.	30	71*	63†	66
New York, N. Y.....	30.00	30.34	22	29.19	30	15	80	s.	30	76	71	75
Philadelphia, Pa.....	30.03	30.35	22	29.32	30	8	28	n.	13	80	71	65
Ridgefield.....	30.00	30.35	22	29.16	30							
Wood Hook.....	30.00	30.35	22	29.14	30	13	63	se.	30	86	81	69
Princeton.....	30.00	30.34	22	29.23	30	9	36	w.	13	81	73	70

§ Two directions and dates

\* 7 a. m. † 9 p. m.



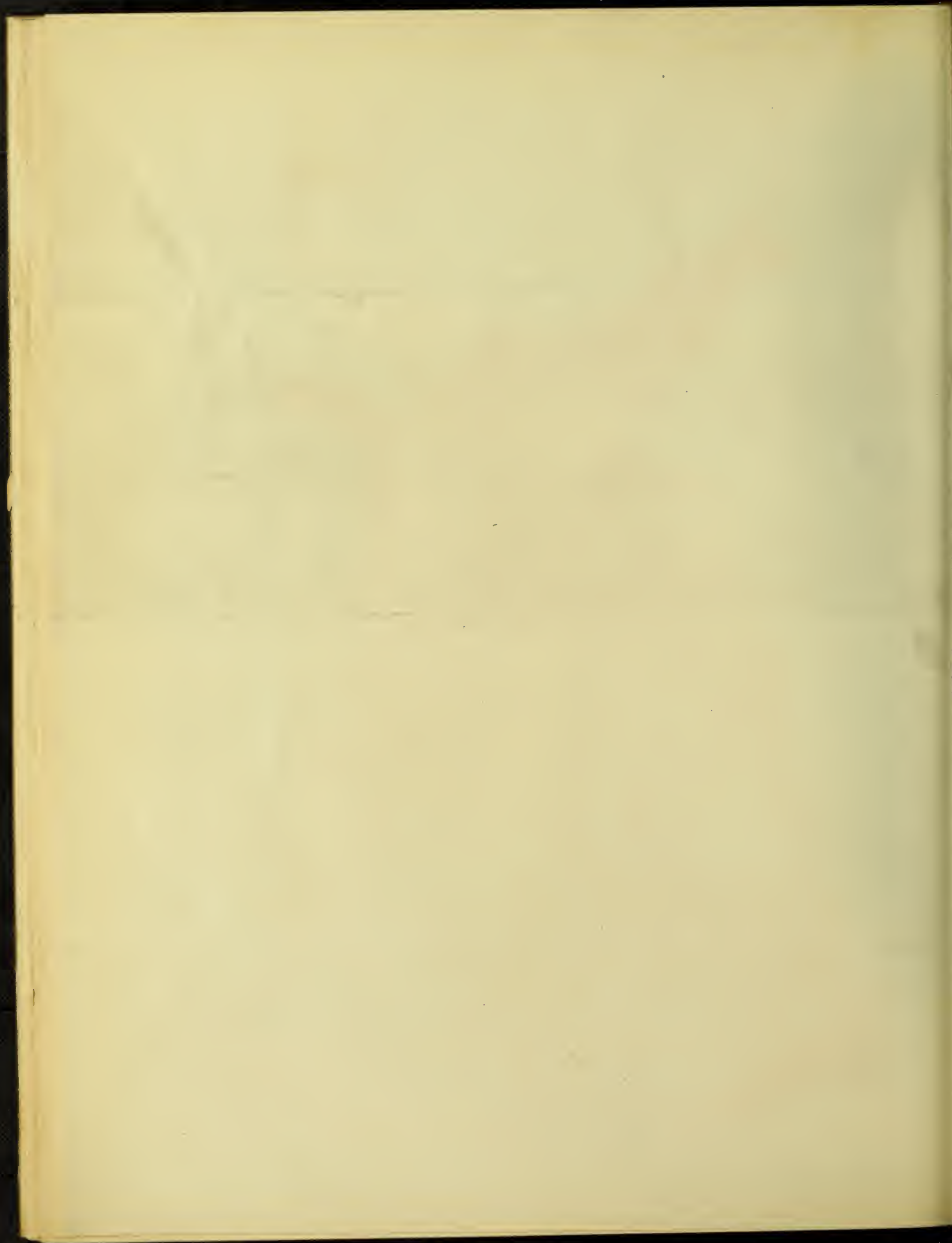
## Daily temperatures for September, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
<i>The Highlands and Kittatinny Valley</i>																																	
Belvidere.....	Maximum...	72	69	75	76	76	70	75	77	76	77	77	84	75	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76.0	
	Minimum...	59	49	45	47	50	58	60	54	53	60	59	60	61	74	72	72	72	74	71	69	68	73	78	83	78	83	79	77	72	...	76.0	
Charlotteburg.....	Maximum...	76	76	73	78	75	74	76	75	77	79	79	80	76	74	77	77	72	72	74	71	68	70	74	79	84	86	81	77	78	77	...	50.2
	Minimum...	57	45	42	39	43	45	59	55	44	58	60	57	61	50	48	52	57	40	48	30	47	40	38	43	53	69	63	59	48	56	...	76.2
Dover.....	Maximum...	75	72	79	80	75	70	76	77	78	79	80	87	73	79	74	73	72	80	67	72	67	74	82	87	80	85	74	73	77	68	...	52.3
	Minimum...	55	46	44	45	48	53	53	55	49	59	60	62	57	51	49	58	52	46	45	35	51	44	43	48	60	68	61	61	52	57	...	76.4
Layton.....	Maximum...	73	70	76	77	77	69	78	77	78	80	80	85	76	77	79	74	70	82	69	71	70	73	79	84	86	81	77	80	61	70	...	52.7
	Minimum...	56	45	39	44	48	51	62	51	50	60	65	61	58	52	49	57	49	41	50	30	49	54	46	50	59	66	65	64	52	57	...	74.0
Newton.....	Maximum...	74	68	72	74	74	69	75	74	74	75	75	81	76	72	73	70	77	72	66	68	71	75	81	82	82	77	74	77	71	72	...	55.5
	Minimum...	59	48	45	49	51	56	62	57	58	59	62	63	63	54	52	59	51	47	52	38	47	49	49	53	64	68	61	64	62	55	...	76.8
Phillipsburg.....	Maximum...	74	71	78	78	80	68	77	78	79	79	81	86	74	77	78	75	72	80	67	70	68	76	79	85	85	83	77	79	62	69	...	54.3
	Minimum...	54	50	46	48	51	60	59	56	53	60	61	81	84	88	85	79	80	76	70	83	72	73	74	79	75	84	90	67	58	50	...	79.8
Sussex.....	Maximum...	81	79	74	81	79	74	80	79	81	81	84	82	85	79	80	76	70	83	72	73	74	79	75	84	90	86	82	84	85	70	...	53.0
	Minimum...	41	51	62	51	62	51	46	59	60	65	59	52	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	...	
<i>The Red Sandstone Plain.</i>																																	
Bergen Point.....	Maximum...	75	72	77	77	77	75	80	79	77	80	81	85	77	76	77	79	72	81	68	71	71	72	79	81	86	82	76	77	78	72	...	77.0
	Minimum...	64	52	59	59	54	62	64	...	54	64	64	65	64	51	64	60	54	49	54	...	51	51	51	56	65	64	...	63	54	67	...	58.5
Boonton§§.....	Maximum...	74	71	70	80	78	74	77	78	79	80	80	84	75	78	78	73	71	79	67	70	71	74	77	85	84	86	78	75	82	72	...	76.7
	Minimum...	62	51	45	45	47	51	61	59	49	57	61	60	64	55	50	57	54	44	51	35	43	44	42	45	50	64	63	59	52	54	...	52.5
Elizabeth.....	Maximum...	78	75	80	78	80	74	79	80	80	81	80	87	82	80	75	78	75	83	71	73	74	75	82	88	86	83	77	78	77	72	...	78.7
	Minimum...	59	50	46	49	49	57	62	55	51	61	61	65	65	52	51	58	51	45	55	36	53	48	47	53	63	68	64	60	57	66	...	55.2
Flemington.....	Maximum...	78	73	80	81	78	72	79	80	80	82	81	90	79	77	81	79	74	83	79	74	75	79	82	87	87	85	80	80	83	71	...	80.0
	Minimum...	61	51	51	48	51	61	64	57	53	62	61	63	66	55	54	56	51	45	57	37	53	47	45	51	69	70	67	63	74	73	...	73.8
Highwood.....	Maximum...	74	71	72	74	75	74	78	76	77	77	73	81	75	69	70	78	68	79	70	67	67	70	75	80	79	81	73	74	73	70	...	54.8
	Minimum...	58	48	44	48	49	54	64	57	50	61	62	64	53	50	51	65	52	45	50	35	52	49	45	56	61	66	62	62	55	63	...	78.2
Jersey City.....	Maximum...	78	75	80	79	80	76	79	80	79	82	79	87	79	79	74	77	75	84	73	70	73	74	79	86	86	81	75	77	78	72	...	60.0
	Minimum...	63	53	53	56	58	65	65	60	60	64	65	67	68	55	57	63	56	56	54	45	56	55	54	61	60	85	84	66	65	61	...	77.8
Kearny.....	Maximum...	76	73	81	78	79	75	79	80	77	80	83	88	76	81	74	76	67	82	68	76	75	75	81	81	85	84	78	76	77	72	...	58.7
	Minimum...	62	52	51	53	54	59	64	60	66	61	63	66	64	56	55	62	55	54	55	44	53	53	51	56	66	69	65	66	59	66	...	
Lambertville.....	Maximum...	75	68	72	74	73	71	75	76	76	77	78	82	76	74	74	69	74	76	76	76	76	76	76	76	76	76	76	76	76	76	...	78.2
	Minimum...	59	49	45	47	51	60	64	53	60	63	59	64	58	56	52	51	56	46	46	...	72	73	74	75	79	86	83	84	77	78	...	56.2
Little Falls.....	Maximum...	78	75	82	77	78	77	79	80	78	80	82	87	75	78	80	76	76	80	76	76	76	76	76	76	76	76	76	76	76	76	...	76.2
	Minimum...	62	52	49	51	52	56	63	57	54	59	63	65	67	55	54	59	56	49	55	39	47	50	47	51	56	67	65	62	58	...	59.1	
Newark.....	Maximum...	74	70	77	77	75	72	77	77	78	81	81	86	76	76	76	73	76	72	82	67	72	71	70	79	86	82	81	75	76	71	...	76.2
	Minimum...	60	54	54	56	56	62	63	60	59	62	65	66	61	57	56	62	57	55	53	46	54	54	53	59	87	89	87	64	60	62	...	59.1
New Brunswick.....	Maximum...	80	72	75	78	75	72	78	78	79	79	79	86	77	76	73	77	74	85	76	70	69	70	79	84	83	81	76	76	80	77	...	77.1
	Minimum...	59	51	48	50	52	60	64	56	55	64	60	65	66	53	55	56	51	49	56	38	54	49	52	55	66	69	66	63	68	59	...	57.0
Paterson.....	Maximum...	78	74	77	79	78	76	80	78	78	82	81	87	78	78	75	76	74	84	75	73	70	72	81	87	82	85	83	75	78	72	...	78.2
	Minimum...	61	52	51	...	57	69	58	...	63	65	65	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	57.9
Plainfield.....	Maximum...	75	72	79	78	76	72	79	79	79	80	80	87	77	79	75	76	72	81	70	70	71	73	80	86	85	78	74	75	80	71	...	77.0
	Minimum...	57	49	50	47	50	57	62	53	52	61	60	63	61	52	53	55	46	43	50	36	51	47	46	51	61	68	63	60	55	64	...	51.1
Ridgefield.....	Maximum...	74	71	77	76	75	73	79	76	78	79	78	84	74	73	72	75	69	79	65	69	70	76	83	84	82	76	76	77	77	71	...	75.4
	Minimum...	50	49	46	49	51	57	63	57	53	61	62	64	56	51	51	59	49	47	42	36	52	50	47	57	62	66	61	62	56	...	54.4	
Somerville.....	Maximum...	75	74	77	79	80	74	79	79	79	79	80	88	78	79	79	76	74	84	77	73	74	78	82	90	88	82	77	77	84	76	...	79.1
	Minimum...	59	50	49	47	52	60	65	55	53	63	62	64	64	53	53	58	50	46	50	37	54	46										











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# CLIMATOLOGICAL DATA

## NEW JERSEY SECTION

OCTOBER, 1920.

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BY

G. HAROLD NOYES

METEOROLOGIST

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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
NOVEMBER 23, 1920.



Departure of the mean temperature from the normal, October, 1920.

Shaded portions show excess (+).  
 Unshaded portions show deficiency (-).  
 Lines show amount of excess or deficiency.

Scale: 0 to 500 Miles, 0 to 800 Kilometers.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., OCTOBER, 1920. No. 10.

GENERAL SUMMARY.

The weather during October was remarkably fine. During the first week the warmth was slightly subnormal, but thereafter, except the last three days of the month, the temperatures were above normal, and frequently of almost summer mildness. This, in connection with a deficiency of rain both in amount and frequency of occurrence, and an excess of sunshine and clear skies, produced a period of weather of more than ordinary agreeableness. The days on which cloudiness was most noticeable were the 1st, 12th, 16th, 18th, 19th, 27th, and 28th. Most of the rain and occurrences of thunder occurred on these dates.

Many instances of heavy rain recorded on the 1st were for falls actually on the night of Sept. 30th-Oct. 1st, the rain having ceased before midnight, but not recorded until the next day. This rainfall was followed by a very rapid rise of the Delaware River to its maximum on the 2d of the month, after which the water gradually subsided.

Normally killing frosts penetrates to all except the most extreme south portions of the State during the last ten days of the month, but this year frost of but moderate severity only, occurred over nearly all portions on the 30th and 31st, and in many localities did not occur at all.

Storm warnings were displayed on the 27th.

TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 39 stations, was 59.0°, which was 4.8° above the normal. The highest temperature was 87° at Bergen Point on the 21st and Bridgeton on the 22d, and the lowest, 25° at Culvers Lake on the 30th. The highest monthly mean temperature was 62.2° at Cape May City, and the lowest, 56.0° at Charlotteburg. The greatest daily range of temperature was 48° at Sussex on the 9th.

The temperature departure from the normal for the year 1920, to date, by sections is: The Highlands, -0.9°; Red Sandstone Plain, -0.6°; Southern Interior, -0.7°; Sea Coast, -1.1°.

PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 44 stations, was 1.80 inches, which was 1.86 inches below the normal. The greatest monthly rainfall was 4.53 inches at Boonton, and the least, 0.55 inch at Bridgeton. The greatest amount of rain in any 24 consecutive hours was 3.53 inches at Boonton on the 1st. The mean of the number of days on which 0.01 inch or more of rain fell was 5, or 3 less than the normal. A trace of snow fell at Culvers Lake on the 29th.

The precipitation accumulated departure from the normal, for the year 1920 to date, by sections is: The Highlands, +5.86; Red Sandstone Plain, +3.20; Southern Interior, -1.02; Sea Coast, -1.55.

WIND.

The prevailing direction was from the southwest, with an approximate velocity of 10 miles per hour, which was slightly above the normal. The highest velocity, sustained for 5 consecutive minutes, was 56 miles per hour from the northwest on the 29th at Long Branch.

SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 20, or 6 more than the normal; partly cloudy, 5, or 3 less than the normal; cloudy, 6, or 3 less than the normal. The approximate per cent of possible sunshine was 72, which was about 15 per cent above the normal.

MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.11 inches, which was 0.04 inch above the normal. The highest reading was 30.39 inches at Sandy Hook and Trenton on the 18th, and the lowest, 29.20 inches at Ridgefield on the 1st.

The mean stage of the Delaware River at Phillipsburg was 3.1 feet, and the highest stage, 10.6 feet on the 2d. At Trenton the mean stage was 2.1 feet, which was 0.8 foot above the normal. The highest stage, 6.0 feet, occurred on the 2d.

Thunderstorms occurred in some portions of the State on the 4th, 5th, 12th, 16th, 17th, 27th, and 28th. Dense fog occurred daily from the 13th to 21st, inclusive, and on the 25th and 26th. Lunar halos were observed on the 25th and 26th, and solar halos on the 8th and 25th. Killing frost occurred in portions of Bergen, Morris, Warren, Somerset, Ocean, Burlington, and Atlantic Counties on the 30th and 31st, while elsewhere in the State light to heavy frost was observed on those dates.

COMPARATIVE DATA FOR OCTOBER.

Year.	Temperature.			Precipitation.			No. of days.			
	Mean.	Highest.	Lowest.	Mean.	Greatest.	Least.	Clear.	Partly cloudy.	Cloudy.	.01 inch or more prec.
1885.....	54.2	82	29	4.20	5.85	2.91	.....	.....	.....	.....
1886.....	55.6	88	21	3.22	8.16	2.02	.....	.....	.....	.....
1887.....	52.3	89	21	2.61	5.00	1.58	.....	.....	.....	.....
1888.....	49.2	73	25	4.73	7.00	2.97	.....	.....	.....	.....
1889.....	50.8	82	23	3.80	5.03	2.42	.....	.....	.....	.....
1890.....	53.9	81	24	6.33	10.18	3.40	9	8	14	13
1891.....	52.8	92	18	3.44	5.57	1.88	11	11	9	8
1892.....	53.6	85	21	0.52	1.09	0.04	14	12	5	4
1893.....	55.2	85	17	4.22	6.59	1.74	15	7	9	7
1894.....	55.3	87	27	5.67	8.23	3.90	12	7	12	10
1895.....	49.9	83	18	3.60	5.53	1.62	19	7	5	5
1896.....	51.5	82	21	2.24	4.58	1.27	11	8	12	8
1897.....	55.8	95	22	2.43	6.49	0.87	14	8	9	7
1898.....	56.5	88	24	5.76	8.42	3.92	13	9	9	10
1899.....	56.6	86	18	2.72	4.65	1.07	13	10	8	6
1900.....	59.9	92	19	3.70	6.59	1.47	10	8	13	10
1901.....	54.4	82	21	1.93	4.45	0.87	17	8	6	4
1902.....	56.0	80	20	6.39	9.35	3.82	15	7	9	8
1903.....	55.9	86	24	8.92	16.19	4.17	13	9	9	8
1904.....	51.9	89	15	3.78	7.01	1.50	20	6	5	5
1905.....	55.5	90	17	2.71	4.83	0.75	18	7	6	7
1906.....	55.0	80	11	4.46	7.14	2.66	8	9	14	11
1907.....	50.6	80	18	4.46	7.18	2.70	22	5	4	7
1908.....	57.3	92	19	2.71	5.14	1.30	15	5	11	8
1909.....	51.2	84	18	1.18	1.82	0.40	17	7	7	8
1910.....	57.2	90	18	3.15	5.55	1.55	15	8	8	7
1911.....	53.9	80	18	5.49	8.23	2.61	10	9	12	12
1912.....	57.0	88	25	3.30	6.95	1.72	17	8	6	5
1913.....	57.8	83	25	7.79	13.84	2.70	12	9	10	11
1914.....	58.1	88	19	1.99	3.08	0.90	13	9	9	5
1915.....	56.2	84	23	3.03	5.18	1.89	17	7	7	9
1916.....	55.1	92	23	1.37	2.38	0.51	18	8	5	4
1917.....	50.7	84	17	6.99	9.74	4.28	15	8	8	10
1918.....	57.0	84	22	1.25	2.36	0.74	16	9	6	8
1919.....	59.0	92	24	3.43	4.97	2.01	9	8	14	13
1920.....	59.0	87	25	1.80	4.53	0.55	20	5	6	5



## Climatological Data for October, 1920.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahr.							Precipitation, in inches.				No. of days.				Prevailing direction of wind.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall (unmelted).	Precipitation, 0.1 in. or more.	Clear.	Pt. cloudy.	Cloudy.		
<i>The Highlands and Kittatinny Valley.</i>																				
Belvidere††	Warren	289	29	56.2 <sup>a</sup>	+3.7	81 <sup>d</sup>	14	32°	30	42	1.98	-1.86	1.83	0	3	27	0	4	.....	Samuel J. Hixson.
Charlotteburg	Passaic	719	28	56.0	+5.6	81	21	28	24	43	1.15	-3.26	0.75	0	4	22	7	2	nw.	George S. Briggs.
Culvers Lake††	Sussex	848	19	57.4 <sup>a</sup>	.....	84	15†	25	30	40	2.31	-1.34	1.03	0	8	22	4	5	se.	Brice E. Riker.
Dover	Morris	600	36	57.4 <sup>a</sup>	+6.7	84	15†	32	24	40	2.66	-1.34	1.41	0	7	12	15	4	.....	William C. Harris.
Layton	Sussex	480	20	56.6	+7.0	83	9†	30	7	46	2.34	-0.99	0.96	0	9	19	4	8	s.	A. M. Depue.
Newton	Sussex	769	39	58.5	+6.8	81	15†	33	30	31	2.76	-0.95	1.30	0	6	19	5	7	sw.	Irving G. Kern.
Phillipsburg	Warren	363	38	57.6	+4.7	82	21†	35	30	36	1.84	-1.76	1.58	0	4	23	2	6	sw.	D. Wilson Smith.
Sussex	Sussex	442	29	57.6	+5.4	85	9†	29	7	48	2.73	-0.62	1.18	0	7	21	4	6	sw.	Rev. W. August George.
Means and extremes				57.1	+5.7	85	9†	25	30	48	2.22	-1.52	1.58	0	6	21	5	5	sw.	
<i>The Red Sandstone Plain.</i>																				
Bergen Point††	Hudson	37	23	59.8 <sup>b</sup>	+5.5	87	21	34	30	37	1.06	-3.02	0.51	0	3	16	11	4	nw.	William H. Mitchell.
Boonton	Morris	400	30	57.3 <sup>a</sup>	.....	84	9†	32	24	46	4.53	+0.69	3.53	0	7	26	1	4	sw.	J. W. Demmers.
Chatham	Morris	330	18	59.8	.....	84	14	33	30	37	1.08	-2.59	0.58	0	5	25	5	1	.....	Paul Molitor, Sr.
Elizabeth	Union	45	41	59.8	+5.1	86	14	33	30	37	1.78	-2.04	1.01	0	5	21	5	5	nw.	L. B. Bonnett.
Flemington	Hunterdon	140	31	60.4	+6.3	85	9†	34	30	41	1.74	-1.71	0.94	0	5	24	3	4	w.	Hiram E. Deats.
Highwood	Bergen	90	32	56.7	+4.0	81	22	30	30	35	1.73	-2.80	0.72	0	5	17	8	6	nw.	Charles J. Bates.
Jersey City	Hudson	10	21	61.4	+5.8	84	14	36	30	29	1.23	-2.52	0.45	0	7	18	6	7	n.	S. K. Pearson, Jr.
Kearny	Hudson			60.4	.....	84	9†	37	30	36	1.17	.....	0.46	0	6	0	24	7	sw.	Wm. J. Chandler, M. D.
Lambertville	Hunterdon	80	33	57.4	+3.8	80	15†	31	30	32	0.78	-3.09	0.55	0	2	17	7	7	w.	Thomas R. Hunt.
Little Falls	Passaic	180	37	59.6 <sup>a</sup>	.....	83	22	38	29	37	4.28	+0.44	3.09	0	6	17	7	7	nw.	Montclair Water Co.
Newark	Essex	159	78	61.6	+7.2	85	14	36	30	30	1.27	-2.50	0.41	0	7	21	8	2	nw.	Prof. William Wiener.
New Brunswick	Middlesex	110	67	60.4	+5.8	83	14†	33	30	34	2.35	-1.24	1.62	0	4	23	5	3	w.	N. J. Experiment Station.
New Milford††	Bergen		1	.....	.....	85	21	35	30†	35	1.19	.....	0.55	0	4	.....	.....	.....	.....	Hackensack Water Co.
Paterson	Passaic	80	49	61.6 <sup>b</sup>	+7.2	85	21	35	30	37	1.81	-2.34	1.05	0	5	11	1	19	nw.	Marion T. Probert.
Plainfield	Somerset	100	33	58.0	+5.0	84	15	29	30	37	2.21	-1.44	1.53	0	7	16	10	5	nw.	E. D. Pearson.
Ridgefield††	Bergen	70	5	57.4	.....	82	14†	33	30	34	1.08	.....	0.48	0	7	20	7	4	nw.	George P. Kirsten.
Somerville	Somerset	60	38	60.9	+7.5	86	21†	31	30	38	2.43	-0.98	1.35	0	5	23	1	7	sw.	Peter V. D. Hardcastle.
South Orange	Essex	200	50	58.2 <sup>a</sup>	+5.3	79 <sup>d</sup>	22	34	30	29	0.79	-3.02	0.54	0	5	21	7	3	w.	Wm. H. Meeder.
Woodcliff Lake††	Bergen		1	.....	.....	82	14	37	30	24	0.95	.....	0.59	0	3	.....	.....	.....	.....	Hackensack Water Co.
New York, N. Y.	Bergen	365	50	60.4	+4.8	82	14	37	30	24	0.77	-2.94	0.44	0	5	15	9	7	nw.	U. S. Weather Bureau.
Means and extremes				59.4	+5.7	87	21	29	30	46	1.84	-1.88	3.53	0	5	19	6	6	nw.	
<i>The Southern Interior.</i>																				
Bridgeton	Cumberland	30	39	61.0	+4.3	87	22	37	30	37	0.55	-2.98	0.55	0	1	28	1	2	sw.	Henry A. Jordan.
Burlington	Burlington	12	34	60.4	+5.7	85	15	37	30†	35	1.73	-1.72	0.95	0	3	26	1	4	nw.	D. S. B. McCoy.
Camp Dix	Burlington	2	59.1	.....	.....	84	15	32	30	38	1.21	.....	0.61	0	7	5	5	21	sw.	U. S. Army.
Clayton	Gloucester	126	28	58.6 <sup>a</sup>	+3.5	83	15	36	3†	39	1.70	-1.81	0.90	0	5	13	5	13	se.	Marvin E. Porch.
Hammonton	Atlantic	103	18	.....	.....	82	14†	31	30	38	4.25	+0.77	3.07	0	4	25	4	2	sw.	G. H. Parkhurst.
Hightstown	Mercer	120	27	58.0	+4.3	82	14†	31	30	38	2.68	-1.55	1.60	0	6	24	3	4	sw.	E. H. Savage, Jr.
Imlaystown	Monmouth	185	31	57.4 <sup>a</sup>	+2.5	84 <sup>a</sup>	15	30	30	39	2.63	-1.44	1.78	0	8	.....	.....	.....	.....	Wm. R. Hendrickson.
Indian Mills††	Burlington	76	31	58.2	+3.8	86	15	28	31	42	1.87	-1.71	0.87	0	4	19	7	5	nw.	James M. Armstrong.
Lakewood	Ocean	54	17	56.8	+1.5	81	22	32	24	36	1.74	-1.96	0.90	0	5	22	3	6	w.	R. W. Holman.
Moorestown	Burlington	75	58	.....	.....	.....	.....	.....	.....	.....	1.82	-1.68	0.95	0	4	.....	.....	.....	.....	Stokes Seed Farms Co.
Northfield	Atlantic	25	13	.....	.....	.....	.....	.....	.....	.....	1.55	-2.13	0.77	0	4	26	1	4	.....	William L. Flick.
Pleasantville††	Atlantic	26	22	.....	.....	.....	.....	.....	.....	.....	1.55	-2.13	0.77	0	4	26	1	4	.....	Lincoln Van Gilder.
Trenton	Mercer	190	49	59.6	+4.0	83	15	36	30	29	0.92	-2.49	0.70	0	5	17	7	7	w.	U. S. Weather Bureau.
Tuckerton	Ocean	23	27	58.7	+3.9	84	22	30	30	40	1.16	-2.49	0.95	0	2	21	6	4	uw.	Frank R. Austin.
Vineland	Cumberland	109	52	61.4 <sup>b</sup>	+6.0	86	15	36	30	35	0.65	-2.81	0.65	0	1	23	6	2	nw.	H. C. Himes.
Woodbine	Cape May	43	29	.....	.....	85	15	41	31	27	0.64	-2.46	0.50	0	3	17	7	7	sw.	Jos. H. Cohen.
Philadelphia, Pa.	Cape May	117	50	62.4	+6.1	85	15	41	31	27	0.64	-2.46	0.50	0	3	17	7	7	sw.	U. S. Weather Bureau.
Means and extremes				59.0	+4.0	87	22	28	31	42	1.75	-1.85	3.07	0	4	21	4	6	sw.	
<i>The Sea Coast.</i>																				
Asbury Park	Monmouth	22	31	60.6	+5.0	83	22	34	30	34	1.17	-2.61	0.67	0	4	21	5	5	sw.	Information Bureau.
Atlantic City	Atlantic	16	47	60.2	+2.8	85	22	38	30	28	0.67	-2.63	0.58	0	3	20	6	5	w.	U. S. Weather Bureau.
Cape May City	Cape May	17	36	62.2	+2.6	83	22	44	7	22	1.47	-1.83	0.84	0	4	20	6	5	w.	U. S. Weather Bureau.
Long Branch	Monmouth	25	13	57.4	+2.4	83	22	33	30	27	1.49	-2.16	0.77	0	3	19	6	6	w.	William D. Martin, Jr.
Sandy Hook	Monmouth	22	22	59.8	+3.1	78	14	40	30	22	0.83	-2.77	0.66	0	4	15	11	5	sw.	U. S. Weather Bureau.
Means and extremes				60.0	+5.2	85	22	33	30	34	1.13	-2.40	0.84	0	4	19	7	5	w.	
For the State				59.0	+4.8	87	21†	25	30	48	1.80	-1.86	3.53	0	5	20	5	6	sw.	

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken Ridgefield is Morsemere; Indian Mills is Atsion.



## Daily Precipitation for October, 1920.

Stations.	Watershed.	Day of month.																															Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
<i>The Highlands and Kittatinny Valley</i>																																					
Belvidere.....	Delaware.....												.15				*																1.98				
Charlotteburg.....	Passaic.....												.17				.18																	1.15			
Culvers Lake.....	Delaware.....	.95				.02							.03				.01	.24															2.31				
Dover.....	Passaic.....	1.41			.08								.10				.18																2.66				
Dayton.....	Delaware.....	.80				.07							.04				.04	.22										.06	.09	.96	.06		2.34				
Newton.....	Delaware.....	1.18											.07				.10		.03														2.76				
Phillipsburg.....	do.....				.07								.19				T.												1.48	.10	T.		1.84				
Russell.....	Hudson.....	.63				.03							.66					.17											.01	1.18	.05		2.73				
<i>The Red Sandstone Plain.</i>																																					
Bergen Point.....	Coast.....												.51				T.	.10															1.06				
Boonton    .....	Passaic.....	3.53				.01							.06	.03				.18															4.53				
Chatham   .....	do.....				.13								.12				.09											T.	.58	.16			1.08				
Elizabeth.....	Coast.....	1.01			.18								.05				.09		T.									T.	T.	.45	T.		1.78				
Hemington.....	Raritan.....	.94			.16								.18				.01												T.	.45	T.		1.74				
Highwood.....	Hackensack.....	.72			.02								.09				T.	.32											T.	.58	T.		1.73				
Jersey City.....	Coast.....	.36				.10							.05					.22	T.	.04								T.		T.	.45	.01	1.23				
Kearny.....	Coast.....	.31			.10								.08					.20															1.17				
Lambertville.....	Delaware.....					T.							T.					.23															0.78				
Little Falls     .....	Passaic.....	3.09											.13	.02					.24														4.28				
Newark**.....	Coast.....	.32			.05								.18				.22	.04															1.27				
New Brunswick.....	Raritan.....	1.62			.11								.09				T.													T.	.53		2.35				
New Milford.....	Hackensack.....												.10				.50													.04	.55		1.19				
Paterson.....	Passaic.....	1.05				T.							.04				.08														.02	.62	T.	1.81			
Plainfield.....	Raritan.....	1.53				.14							.05				.05		.07														2.21				
Ridgefield**.....	Hackensack.....				T.	.10							.10				.02	.33	.02														1.08				
Romerville.....	Raritan.....	1.35			.42								.08				.05																	2.43			
South Orange.....	Rahway.....				.02	.01							.10					.12															0.79				
Woodcliff Lake.....	Hackensack.....												.05				.31																0.95				
New York, N. Y***.....	Coast.....				.08								.05				.19	T.	T.	T.									T.		T.	.44	.01	0.77			
<i>The Southern Interior.</i>																																					
Bridgeton.....	Coast.....												T.				T.	T.															0.55				
Burlington.....	Delaware.....	.95											.10																					1.73			
Camp Dix.....	Delaware.....	.05											.28						.04	.12											.61	.07	.04	1.21			
Dayton.....	Maurice.....	.56											.15							.07												.90		1.70			
Hammonton.....	Mullica.....	3.07											.26							.18												.74		4.25			
Hightstown.....	Raritan.....	1.60											.23				.03	.25	.02															2.68			
Maytown.....	Delaware.....	1.78	T.										.05				.09	.02	.03	.02	T.											.60	T.	.04	2.63		
Indian Mills.....	Mullica.....	.72											.14						.14															1.87			
Lakewood.....	Metedeconk.....	.38											.19				.07	T.	.20													.90		1.74			
Moorestown.....	Delaware.....																																				
Northfield.....	Coast.....	.95											.02				.05																				
Pleasantville.....	Coast.....	.77											.01				.06	T.	T.													.80		1.82			
Princeton***.....	do.....																																	1.55			
Ruckerton.....	Delaware.....				T.								.10				.09			.03																	
Shelton.....	Coast.....												.21																				.04	.66	T.	T.	0.92
Shelton.....	Maurice.....																																	.95		1.16	
Woodbine.....	Coast.....																																	.65		0.65	
Philadelphia, Pa.....	Delaware.....												.14							T.													.11	.39		0.64	
<i>The Sea Coast.</i>																																					
Asbury Park.....	Coast.....												.05				.15				.30														1.17		
Atlantic City***.....	do.....												T.				.08	T.	T.	.01													T.	.58		0.67	
Cape May City.....	do.....	.54																															.08	.01	.84		1.47
Long Branch**.....	do.....																																	.02	.77		1.49
New York Hook***.....	do.....				.06								.04				.07				.70													T.	.66	T.	0.83

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
 †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
 \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

Stations.	Pressure.					Wind.			Moisture.		Sun- shine	
	Monthly mean.	Highest.	Date.	Lowest.	Date.	Hourly velocity.	Highest.			Relative humidity, per cent. at 8 a. m.	Relative humidity, per cent. at 8 p. m.	Percentage of possible sunshine.
							Miles per hour.	Direction.	Date.			
Atlantic City.....	30.12	30.36	18	29.39	1	7	25	s.	27	81	76	76
ape May City.....	30.16	30.36	18	29.65	1	8	28	nw.	5	82	76	.....
ong Branch.....							56	nw.	29	68*	63†	76
ewark.....	30.08	30.38	18	29.28	1	15	55	nw.	5	75	64	73
ew York, N. Y.	30.12	30.39	18	29.42	1	8	30	nw.	5	81	70	67
hiladelphia, Pa.	30.07	30.30	18	29.20	1							
idgefield.....	30.09	30.39	18	29.32	1	13	44	s.	27	84	80	70
andy Hook.....	30.09	30.39	18	29.29	1	10	33	s.	27	80	69	65
renton.....												

§ Two directions and dates

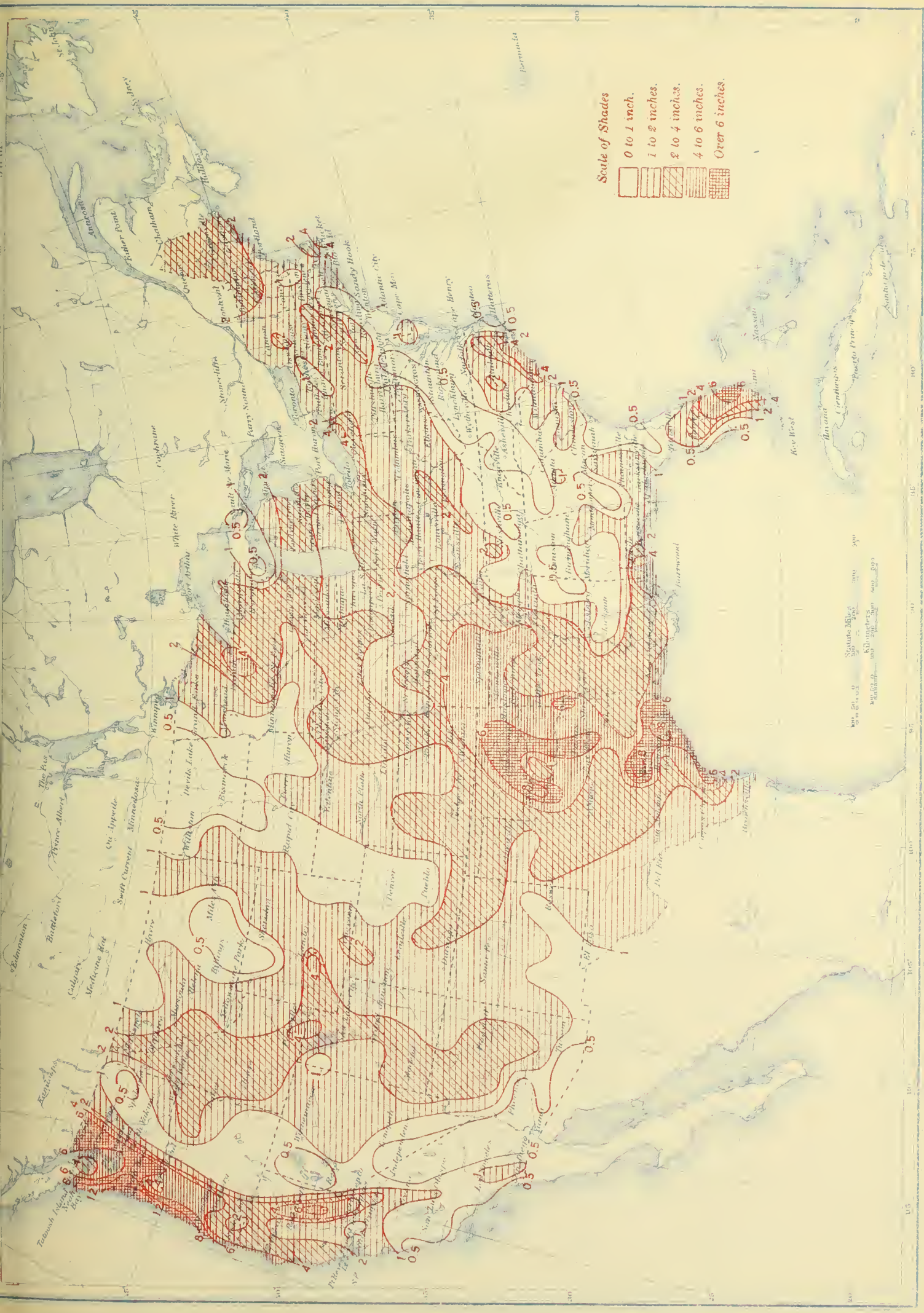
\* 7 a. m. † 9 p. m.



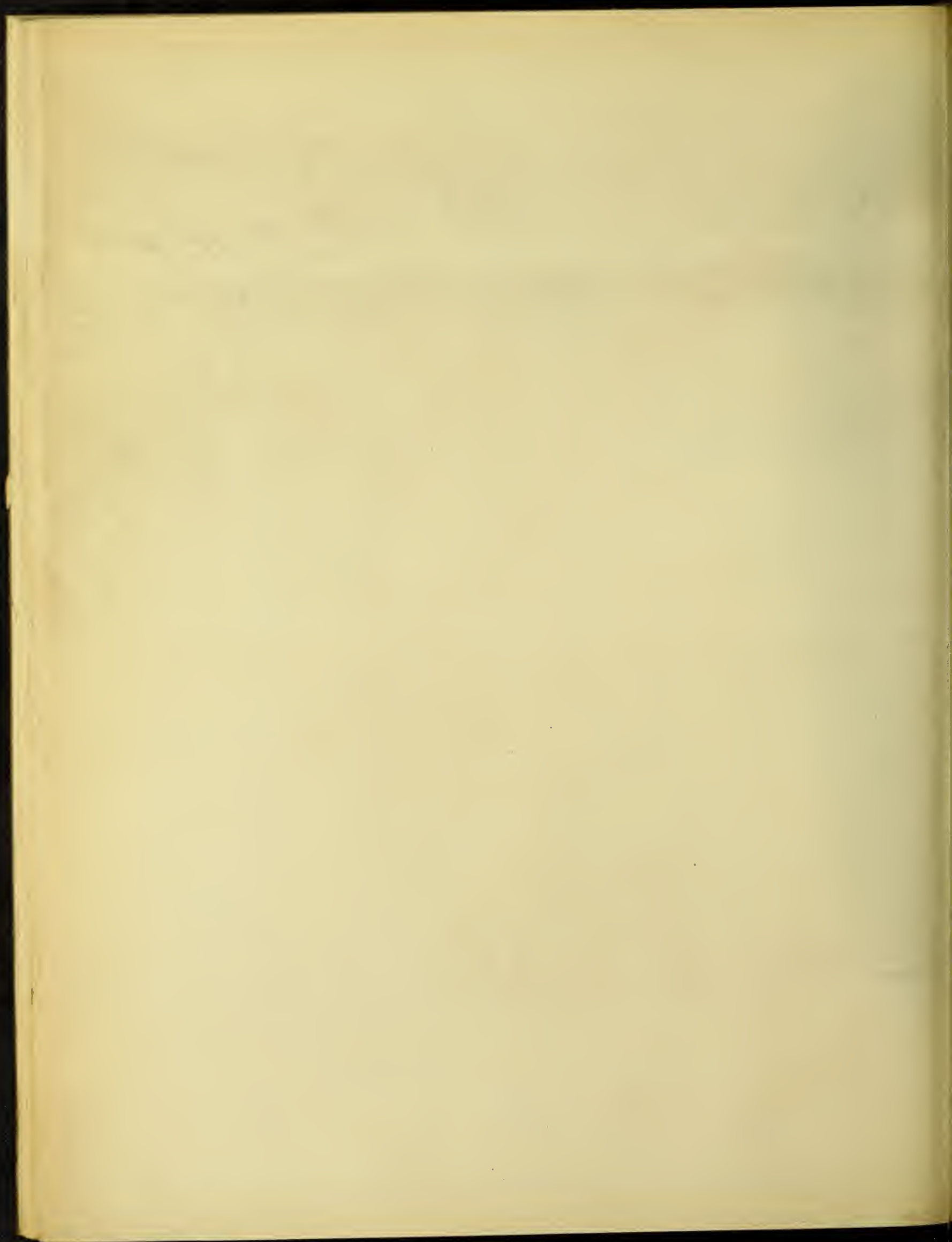
## Daily Temperatures for October, 1920.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean.		
<i>The Highlands and Kittatinny Valley</i>																																		
Belvidere.....	Maximum ..	61	62	68	75	68	63	69	80	78	75	68	70	81	79	78	75	62	55	56	45	43	40	35	43	75	71	69	52	51	68	69.8		
	Minimum ..	48	37	48	43	38	34	35	38	43	40	51	43	51	45	46	48	48	56	45	43	40	35	43	70	51	60	52	39	32	38	48.0		
Charlotteburg.....	Maximum ..	68	66	68	74	69	69	67	74	80	78	74	70	73	80	79	78	73	69	72	81	73	70	65	70	68	70	64	63	55	63	71.0		
	Minimum ..	46	36	30	39	43	40	32	42	37	37	42	42	35	44	40	41	48	54	44	44	52	34	28	35	51	53	50	38	31	38	40.9		
Dover.....	Maximum ..	58	61	71	77	58	62	70	75	83	77	78	62	75	82	84	81	74	58	67	75	84	80	70	69	71	70	69	67	48	64	70.7		
	Minimum ..	46	40	34	47	43	38	35	39	43	44	42	47	40	50	48	46	50	45	55	48	52	37	32	39	53	59	50	40	31	34	42.7		
Layton.....	Maximum ..	61	62	70	78	58	62	70	80	83	75	75	62	72	83	83	80	76	58	72	78	83	80	71	68	70	70	69	69	50	52	67	70.5	
	Minimum ..	49	38	35	45	41	40	30	34	40	38	35	45	40	44	55	45	48	48	52	48	51	34	31	48	51	59	52	42	33	40	47.1		
Newton.....	Maximum ..	68	59	66	74	68	60	65	72	77	74	72	65	70	80	81	78	71	65	67	71	81	78	71	68	68	71	69	68	63	62	65	69.9	
	Minimum ..	47	39	40	52	48	40	36	43	48	49	47	52	40	49	50	52	57	53	56	49	53	60	40	39	45	51	59	52	42	33	40	47.1	
Phillipsburg.....	Maximum ..	56	62	72	76	59	63	67	75	80	76	75	69	70	81	81	80	73	61	68	74	82	82	68	69	70	75	70	63	49	51	64	69.7	
	Minimum ..	47	40	37	49	45	38	36	39	44	45	43	49	44	51	48	48	51	50	54	48	53	57	44	36	46	54	59	48	37	35	40	45.6	
Sussex.....	Maximum ..	59	64	72	79	70	64	74	79	85	78	79	63	77	84	79	83	77	61	72	75	85	80	72	69	70	73	74	70	54	52	70	72.8	
	Minimum ..	51	39	33	40	39	39	29	35	37	40	33	45	34	47	45	51	51	50	58	45	49	51	35	32	41	51	54	52	41	31	34	42.4	
<i>The Red Sandstone Plain.</i>																																		
Bergen Point.....	Maximum ..	66	66	72	75	65	61	75	79	78	77	63	77	83	79	79	69	61	68	73	87	83	71	71	73	73	78	71	56	54	64	69	71.6	
	Minimum ..	46	42	54	48	42	46	38	48	49	45	53	44	48	47	48	56	50	51	50	54	59	46	40	49	53	61	54	44	34	40	48.0		
Boonton§§.....	Maximum ..	57	60	70	76	65	63	70	80	84	76	79	62	73	83	84	80	74	61	67	77	84	80	70	68	70	75	74	59	53	52	67	71.1	
	Minimum ..	51	41	44	50	41	34	35	38	43	44	47	38	40	46	46	49	44	47	48	48	52	38	32	34	52	52	53	44	37	37	43.5		
Elizabeth.....	Maximum ..	72	65	73	79	68	64	71	78	83	80	78	69	76	86	83	76	71	63	68	76	85	85	74	71	74	75	75	72	60	53	67	73.3	
	Minimum ..	49	41	38	46	46	38	35	40	54	46	43	50	42	49	50	55	52	48	57	49	51	56	40	36	45	53	58	55	42	34	40	46.2	
Flemington.....	Maximum ..	70	64	73	80	66	62	72	81	85	78	76	67	73	85	84	83	77	75	65	77	85	83	78	70	72	78	73	75	60	56	68	73.9	
	Minimum ..	51	40	37	49	50	41	42	40	45	46	44	48	44	53	50	50	55	48	57	51	61	61	67	67	70	70	72	69	54	50	64	68.4	
Highwood.....	Maximum ..	71	61	68	75	63	59	64	72	75	73	59	70	80	80	74	75	69	67	61	68	72	81	83	73	68	72	74	74	69	59	53	65	71.1
	Minimum ..	49	42	38	48	45	38	34	37	43	44	41	48	39	46	47	55	56	56	52	58	54	57	62	50	45	51	58	61	56	45	36	41	51.6
Jersey City.....	Maximum ..	70	65	72	78	73	63	68	75	79	79	74	68	73	84	77	75	73	64	63	75	82	80	74	68	71	72	71	71	55	51	65	71.1	
	Minimum ..	53	46	46	53	53	45	43	48	53	54	52	55	47	55	58	56	56	52	58	54	57	62	50	45	51	56	62	55	40	37	40	49.6	
Kearny.....	Maximum ..	70	64	71	78	62	64	72	80	84	78	79	62	73	84	77	75	73	64	63	75	82	80	74	64	69	74	73	72	54	50	63	68.8	
	Minimum ..	52	44	44	52	50	44	42	44	48	50	50	53	47	51	54	55	56	50	59	53	57	55	46	42	51	56	62	55	40	37	40	46.0	
Lambertville.....	Maximum ..	65	60	65	72	65	60	63	71	76	75	71	65	69	79	80	76	69	65	67	70	78	80	74	64	69	74	73	72	54	50	63	68.8	
	Minimum ..	54	41	38	47	45	39	38	39	45	46	42	44	50	50	48	48	50	48	48	50	57	50	52	56	44	36	46	54	60	53	40	46.0	
Little Falls.....	Maximum ..	63	62	74	78	64	61	70	78	84	79	78	63	75	85	78	77	71	62	66	75	81	82	69	69	72	75	69	69	53	52	65	71.0	
	Minimum ..	52	45	41	48	47	43	39	41	46	47	47	50	44	48	51	54	53	49	54	53	57	62	66	76	83	79	63	72	71	60	72	66	72.9
Newark.....	Maximum ..	62	62	71	80	64	61	70	78	84	79	78	63	75	85	78	77	71	62	66	75	81	82	69	69	72	75	69	69	53	52	65	71.0	
	Minimum ..	51	46	46	59	47	46	44	48	54	57	58	54	51	58	60	57	59	54	60	55	57	62	66	76	83	79	63	72	71	60	72	66	72.9
New Brunswick.....	Maximum ..	72	68	69	77	75	68	67	70	78	77	70	73	83	83	80	76	72	69	76	83	83	81	60	45	38	52	53	60	55	41	33	40	47.9
	Minimum ..	56	39	26	47	49	41	37	42	48	51	46	51	44	52	55	55	52	48	56	52	51	60	45	38	52	53	60	55	41	33	40	47.9	
Paterson.....	Maximum ..	72	65	73	79	70	65	72	80	84	81	69	78	85	80	80	72	70	70	76	85	82	75	73	74	73	76	69	57	52	70	73	73.9	
	Minimum ..	51	44	45	49	53	44	40	49	54	51	49	50	45	53	55	55	55	48	58	51	63	66	67	68	72	75	75	70	55	53	67	71.0	
Plainfield.....	Maximum ..	69	63	70	77	65	62	70	76	81	81	77	67	72	83	81	80	71	63	66	75	83	83	67	68	72	71	70	55	53	67	71.0		
	Minimum ..	49	39	36	43	45	41	39	39	45	44	43	46	42	49	49	49	52	45	53	50	52	54	39	34	41	50	53	52	42	29	31	44.4	
Ridgefield.....	Maximum ..	69	62	67	76	60	62	67	75	79	76	74	60	71	82	72	71	68	61	67	72	82	82	63	66	71	69	74	69	51	51	65	68.3	
	Minimum ..	47	43	39	50	43	41	35	41	45	46	46	45	39	49	52	54	51	48	57	49	53	56	41	37	48	54	62	48					











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# CLIMATOLOGICAL DATA

## NEW JERSEY SECTION

NOVEMBER, 1920.

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BY

G. HAROLD NOYES

METEOROLOGIST

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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
DECEMBER 21, 1920.



Departure of the Mean Temperature from the Normal, November, 1920.



Shaded portions show excess (+)  
Unshaded portions show deficiency (-)  
Lines show amount of excess or deficiency



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

VOL. XXV. TRENTON, N. J., NOVEMBER, 1920. No. 11

## GENERAL SUMMARY.

The weather of November was generally unpleasant, with a notable frequency of rain and persistence of cloudiness, particularly after the first six days. Commencing the 16th, rain fell in copious amounts, so that streams and ponds received an adequate supply of water to raise their levels somewhat above early winter normals. There was a light fall of snow in extreme northern sections on the 15th, but the amount was considerably below the usual November quantity, and it disappeared in a few hours. The coldest period of the month, from the 12th to 15th, was somewhat more than ten degrees below normal, but thereafter temperature variations were comparatively slight. The number of cloudy days breaks the November record, and the amount of sunshine as shown at stations where recorded was less than half of the possible quantity.

Storm warnings were displayed along the coast on the 2d, 3d, 9th, 11th, 12th, 16th, 17th, 22d, 27th, and 28th.

## TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 40 stations was 43.0°, or normal. The highest temperature was 74° at Bridgeton on the 1st, and the lowest, 11° at Culvers Lake on the 13th. The greatest daily range of temperature was 34° at Tuckerton on the 1st and Indian Mills on the 14th. The highest monthly mean was 47.8° at Cape May City, and the lowest, 38.6° at Layton.

The temperature departure from the normal for the year 1920 to date, by sections, is: The Highlands, -0.8°; Red Sandstone Plain, -0.5°; Southern Interior, -0.6°; Sea Coast, -0.9°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 42 stations, was 4.41 inches, which was 0.96 inch above the normal. The average total snowfall was 0.2 inch, which was 1.5 inches below the normal. The greatest monthly precipitation was 7.90 inches at Long Branch, and the least, 2.14 inches at Trenton. The greatest amount of precipitation in any 24 consecutive hours was 3.78 inches at Long Branch on the 16th-17th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 10, or 2 more than the normal.

The precipitation accumulated departure from the normal for the year 1920 to date, by sections, is: The Highlands, +7.19; Red Sandstone Plain, +3.55; Southern Interior, -0.01; Sea Coast, +0.51.

## WIND.

The prevailing direction was from the northwest, which was normal. The wind movement was approximately 12 miles per hour, or somewhat above the normal. The highest velocity, sustained for 5 consecutive minutes, was 85 miles per hour from the northeast at Long Branch on the 17th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 9, which was 3 less than the normal; partly cloudy days, 6, or 3 less than the normal; cloudy days, 15, or 6 more than the normal. The approximate per cent of possible sunshine was 44, which was considerably below the normal.

## MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.13 inches, which was 0.03 inch above the normal. The highest reading was 30.60 inches at Ridgefield on the 29th, and the lowest, 29.27 inches at the same station on the 17th.

The mean stage of the Delaware River at Phillipsburg was 3.9 feet, and the highest stage, 8.4 feet, occurred on the 24th. At Trenton the mean daily stage was 2.6 feet, which was 0.9 foot above the normal. The highest stage was 5.7 feet on the 25th, and the lowest, 1.5 feet on the 13th, 15th, and 16th.

The first killing frosts of autumn occurred in the southern portion of the Highlands on the 4th, and throughout the Red Sandstone Plain, the Southern Interior, and the Coast districts on the 12th and 13th. Fog occurred on the 9th, 21st, and 22d. Thunderstorms occurred in some portions of the State on the 22d and 23d. Sleet was observed in northern sections on the 15th, 16th, and 17th. Solar halos were observed on the 1st and 6th, and lunar halos on the 20th and 25th.

## ERRATA.

October, 1920:—Page 76: Belvidere, mean temperature should read 56.7d instead of 56.2d. South Orange, mean temperature should read 58.7d instead of 58.2d. Vineland, mean temperature should read 61.8b instead of 61.4b. Page 78: Vineland, mean minimum temperature should read 48.4b instead of 48.2b.

## COMPARATIVE DATA FOR NOVEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 44.8         | 76       | 18      | 4.53           | 7.90      | 2.72   | .....        | .....          | .....   | .....                  |
| 1886..... | 44.5         | 73       | 17      | 4.49           | 6.24      | 3.45   | .....        | .....          | .....   | .....                  |
| 1887..... | 41.5         | 72       | 13      | 1.94           | 2.60      | 0.35   | .....        | .....          | .....   | 6                      |
| 1888..... | 45.8         | 77       | 8       | 3.97           | 5.41      | 2.66   | .....        | .....          | .....   | 10                     |
| 1889..... | 45.7         | 69       | 13      | 8.48           | 11.45     | 4.70   | .....        | .....          | .....   | 13                     |
| 1890..... | 43.8         | 74       | 11      | 0.82           | 1.10      | 0.38   | 13           | 12             | 5       | 8                      |
| 1891..... | 42.2         | 70       | 6       | 2.39           | 3.47      | 1.54   | 12           | 10             | 8       | 4                      |
| 1892..... | 41.9         | 71       | 12      | 7.29           | 9.49      | 4.74   | 8            | 9              | 13      | 11                     |
| 1893..... | 41.8         | 70       | 11      | 3.48           | 4.53      | 2.19   | 10           | 11             | 9       | 7                      |
| 1894..... | 40.3         | 76       | 11      | 3.34           | 5.12      | 1.77   | 13           | 7              | 10      | 10                     |
| 1895..... | 45.7         | 80       | 12      | 3.17           | 5.10      | 1.56   | 12           | 7              | 11      | 10                     |
| 1896..... | 38.2         | 78       | 12      | 3.05           | 5.68      | 1.37   | 9            | 9              | 12      | 8                      |
| 1897..... | 43.8         | 74       | 10      | 4.59           | 5.95      | 2.42   | 8            | 11             | 11      | 12                     |
| 1898..... | 42.4         | 70       | 11      | 6.76           | 9.07      | 3.83   | 10           | 9              | 11      | 14                     |
| 1899..... | 44.0         | 71       | 17      | 2.29           | 4.32      | 0.72   | 15           | 8              | 7       | 7                      |
| 1900..... | 47.5         | 79       | 15      | 3.43           | 5.54      | 1.82   | 9            | 10             | 11      | 9                      |
| 1901..... | 38.6         | 69       | 10      | 2.38           | 4.23      | 1.18   | 12           | 9              | 9       | 6                      |
| 1902..... | 49.3         | 80       | 26      | 2.20           | 4.17      | 0.87   | 10           | 11             | 9       | 8                      |
| 1903..... | 39.9         | 79       | 3       | 1.26           | 2.03      | 0.75   | 16           | 8              | 6       | 6                      |
| 1904..... | 40.2         | 69       | 6       | 2.18           | 3.40      | 1.30   | 12           | 10             | 8       | 6                      |
| 1905..... | 42.1         | 70       | 6       | 1.84           | 2.86      | 0.54   | 12           | 10             | 8       | 6                      |
| 1906..... | 43.6         | 70       | 8       | 1.61           | 2.52      | 1.06   | 16           | 7              | 7       | 6                      |
| 1907..... | 43.5         | 68       | 13      | 5.65           | 6.95      | 4.19   | 10           | 8              | 12      | 13                     |
| 1908..... | 43.1         | 72       | 2       | 0.96           | 1.29      | 0.35   | 14           | 8              | 8       | 4                      |
| 1909..... | 46.4         | 80       | 12      | 2.36           | 4.33      | 1.32   | 13           | 8              | 9       | 8                      |
| 1910..... | 40.4         | 71       | 13      | 3.79           | 5.73      | 1.63   | 5            | 13             | 12      | 9                      |
| 1911..... | 41.3         | 73       | 13      | 5.17           | 6.50      | 3.17   | 8            | 11             | 11      | 10                     |
| 1912..... | 45.3         | 76       | 11      | 3.43           | 8.12      | 2.02   | 15           | 8              | 7       | 6                      |
| 1913..... | 46.2         | 77       | 19      | 2.71           | 4.89      | 1.00   | 14           | 7              | 9       | 7                      |
| 1914..... | 43.3         | 80       | 6       | 2.60           | 4.81      | 1.21   | 16           | 8              | 6       | 6                      |
| 1915..... | 44.0         | 75       | 16      | 1.69           | 3.11      | 0.96   | 14           | 8              | 8       | 8                      |
| 1916..... | 43.3         | 75       | 11      | 2.11           | 3.81      | 0.80   | 16           | 5              | 9       | 8                      |
| 1917..... | 39.8         | 63       | 2       | 0.66           | 1.15      | 0.18   | 19           | 5              | 6       | 3                      |
| 1918..... | 43.9         | 71       | 10      | 1.87           | 3.05      | 0.49   | 14           | 6              | 10      | 7                      |
| 1919..... | 43.7         | 76       | 10      | 3.74           | 6.18      | 1.98   | 13           | 7              | 10      | 11                     |
| 1920..... | 43.0         | 74       | 11      | 4.41           | 7.90      | 2.14   | 9            | 6              | 15      | 10                     |



## Climatological Data for November, 1920.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere††                                 | Warren     | 289              | 29                       | 40.6                          | -0.6                       | 66       | 1     | 18      | 14    | 26                        | 4.57   | +1.08                      | 1.55                  | 1.0                        | 8                              | 8      | 1           | 21                            | .....      | Samuel J. Hixson.         |
| Charlotteburg                               | Passaic    | 719              | 28                       | 39.4                          | -1.1                       | 63       | 1     | 15      | 14    | 29                        | 6.31   | +2.58                      | 1.80                  | .....                      | 6                              | 13     | 6           | 11                            | nw.        | George S. Briggs.         |
| Culvers Lake††                              | Sussex     | 848              | 19                       | .....                         | .....                      | .....    | ..... | .....   | 11    | 13                        | 4.38   | +1.56                      | 1.63                  | 2.1                        | 13                             | 8      | 5           | 17                            | ne.        | Brice E. Riker.           |
| Dover                                       | Morris     | 600              | 36                       | 40.0 <sup>a</sup>             | -0.3                       | 68       | 1     | 17      | 14    | 26                        | 4.58   | +0.95                      | 1.92                  | 0.5                        | 10                             | 3      | 10          | 17                            | .....      | William C. Harris.        |
| Layton                                      | Sussex     | 480              | 20                       | 38.6                          | +0.2                       | 65       | 1     | 14      | 14    | 27                        | .....  | .....                      | .....                 | 1.0                        | 11                             | 6      | 6           | 18                            | sw.        | A. M. Depue.              |
| Newton                                      | Sussex     | 769              | 39                       | 39.2 <sup>a</sup>             | -0.6                       | 63       | 1     | 18      | 13    | 24                        | 4.61   | +1.67                      | 1.48                  | 1.0                        | 14                             | 9      | 3           | 18                            | ne.        | Irving G. Kern.           |
| Phillipsburg                                | Warren     | 363              | 38                       | 40.6                          | -1.0                       | 65       | 1     | 21      | 14    | 22                        | 3.93   | +0.65                      | 1.65                  | 1.9                        | 12                             | 10     | 2           | 18                            | nw.        | D. Wilson Smith.          |
| Sussex                                      | Sussex     | 442              | 29                       | 39.7                          | -0.8                       | 64       | 1     | 14      | 14    | 30                        | 3.88   | +0.82                      | 1.70                  | T.                         | 10                             | 6      | 9           | 15                            | ne.        | Rev. W. August George.    |
| Means and extremes                          |            |                  |                          | 39.7                          | -0.6                       | 68       | 1     | 11      | 13    | 30                        | 4.61   | +1.33                      | 1.92                  | 1.1                        | 10                             | 8      | 5           | 17                            | ne.        |                           |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††                              | Hudson     | 37               | 23                       | 43.9                          | +0.9                       | 69       | 1     | 21      | 14    | 25                        | .....  | .....                      | .....                 | T.                         | .....                          | 4      | 10          | 16                            | ne.        | William H. Mitchell.      |
| Boonton                                     | Morris     | 400              | 30                       | 41.4                          | .....                      | 68       | 1†    | 19      | 14†   | 28                        | 4.09   | +0.42                      | 1.52                  | T.                         | 8                              | 15     | 7           | 8                             | nw.        | J. W. Demmers.            |
| Chatham                                     | Morris     | 330              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.08   | +0.59                      | 1.54                  | T.                         | 7                              | 9      | 14          | 7                             | .....      | Paul Molitor, Sr.         |
| Elizabeth                                   | Union      | 45               | 41                       | 43.4                          | -0.2                       | 70       | 1     | 20      | 14    | 27                        | 3.82   | +0.48                      | 1.60                  | T.                         | 8                              | 8      | 8           | 14                            | nw.        | L. B. Bonnett.            |
| Flemington                                  | Hunterdon  | 140              | 31                       | 42.8                          | 0.0                        | 70       | 1     | 20      | 14    | 28                        | 3.39   | +0.04                      | 1.20                  | 0.5                        | 10                             | 9      | 6           | 15                            | w.         | Hiram E. Deats.           |
| Highwood                                    | Bergen     | 90               | 32                       | 41.0                          | -1.3                       | 67       | 1     | 17      | 14    | 26                        | 4.20   | +0.57                      | 1.26                  | 0.3                        | 12                             | 8      | 6           | 16                            | nw.        | Charles J. Bates.         |
| Jersey City                                 | Hudson     | 10               | 21                       | 44.8                          | +1.2                       | 69       | 1     | 25      | 13    | 21                        | 3.58   | +0.18                      | 1.40                  | T.                         | 8                              | 8      | 6           | 16                            | nw.        | S. K. Pearson, Jr.        |
| Kearny                                      | Hudson     | .....            | .....                    | 42.8 <sup>a</sup>             | .....                      | 66       | 1     | 24      | 13    | 20                        | 3.88   | .....                      | .....                 | T.                         | 8                              | 0      | 13          | 17                            | sw.        | Wm. J. Chandler, M. D.    |
| Lambertville                                | Hunterdon  | 80               | 33                       | 41.6                          | -1.4                       | 66       | 3     | 16      | 14    | 28                        | 3.36   | -0.25                      | .....                 | T.                         | 8                              | 8      | 3           | 19                            | e.         | Thomas R. Hunt.           |
| Little Falls                                | Passaic    | 180              | 17                       | 44.2 <sup>b</sup>             | .....                      | 67       | 1     | 23      | 14    | 25                        | 4.13   | +0.61                      | 1.90                  | .....                      | 8                              | 7      | 12          | 11                            | nw.        | Montclair Water Co.       |
| Newark                                      | Essex      | 159              | 78                       | 43.1                          | +0.2                       | 68       | 1     | 25      | 13    | 23                        | 5.05   | +1.55                      | 2.03                  | T.                         | 9                              | 9      | 7           | 14                            | nw.        | Prof. William Wiener.     |
| New Brunswick                               | Middlesex  | 110              | 67                       | 43.8                          | +0.2                       | 70       | 2     | 22      | 14    | 28                        | 4.03   | +0.44                      | 1.74                  | T.                         | 8                              | 15     | 0           | 15                            | nw.        | N. J. Experiment Station. |
| New Milford††                               | Bergen     | .....            | 1                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | T.                         | 7                              | 3      | 4           | 23                            | nw.        | Hackensack Water Co.      |
| Paterson                                    | Passaic    | 80               | 49                       | 43.7                          | +0.4                       | 71       | 1     | 23      | 13    | 26                        | 3.22   | -0.04                      | 1.38                  | T.                         | .....                          | .....  | .....       | .....                         | nw.        | Marion T. Probert.        |
| Plainfield                                  | Somerset   | 100              | 33                       | 41.5                          | -0.5                       | 69       | 1     | 17      | 13†   | 33                        | 4.00   | +0.41                      | 1.78                  | 0.3                        | 11                             | 8      | 7           | 15                            | nw.        | E. D. Pearson.            |
| Ridgefield††                                | Bergen     | 70               | 5                        | 41.6                          | .....                      | 68       | 1     | 21      | 13    | 25                        | 4.00   | .....                      | 1.68                  | 0.2                        | 13                             | 7      | 8           | 15                            | nw.        | George P. Kirsten.        |
| Somerville                                  | Somerset   | 60               | 38                       | 43.4                          | +1.2                       | 70       | 1     | 20      | 14    | 30                        | 3.37   | -0.02                      | 1.30                  | T.                         | 8                              | 9      | 1           | 20                            | nw.        | Peter V. D. Hardcastle.   |
| South Orange                                | Essex      | 200              | 50                       | 42.8                          | +1.2                       | 66       | 1     | 23      | 13    | 24                        | 3.34   | -0.03                      | 1.08                  | T.                         | 14                             | 13     | 5           | 12                            | w.         | Wm. H. Meeder.            |
| Woodcliff Lake††                            | Bergen     | .....            | 1                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | T.                         | 10                             | 5      | 7           | 18                            | nw.        | Hackensack Water Co.      |
| New York, N. Y.                             |            | 365              | 50                       | 44.2                          | +0.2                       | 67       | 1     | 25      | 13    | 19                        | 3.56   | +0.12                      | 1.71                  | T.                         | 10                             | 5      | 7           | 18                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 42.8                          | +0.1                       | 71       | 1     | 16      | 14    | 33                        | 3.85   | +0.35                      | 2.03                  | 0.1                        | 9                              | 8      | 7           | 15                            | nw.        |                           |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton                                   | Cumberland | 30               | 39                       | 45.5                          | +0.6                       | 74       | 1     | 20      | 14    | 31                        | 3.93   | +0.67                      | 1.40                  | 0                          | 10                             | 14     | 2           | 14                            | ne.        | Henry A. Jordan.          |
| Burlington                                  | Burlington | 12               | 34                       | 44.1                          | +0.1                       | 70       | 1     | 20      | 14    | 31                        | 4.01   | +0.27                      | 1.40                  | 0                          | 10                             | 16     | 1           | 13                            | nw.        | D. S. B. McCoy.           |
| Camp Dix                                    | Burlington | .....            | 2                        | 44.1                          | .....                      | 63       | 1†    | 19      | 14    | 27                        | 5.57   | .....                      | 1.65                  | 0                          | 14                             | 1      | 2           | 27                            | ne.        | U. S. Army.               |
| Clayton                                     | Gloucester | 126              | 28                       | 44.1                          | +0.7                       | 69       | 2     | 17      | 14    | 28                        | 3.14   | -0.39                      | 0.93                  | 0                          | 6                              | 5      | 5           | 20                            | nw.        | Marvin E. Porch.          |
| Hammonton                                   | Atlantic   | 103              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.25   | +1.53                      | 1.61                  | 0                          | 6                              | 12     | 8           | 10                            | ne.        | G. H. Parkhurst.          |
| Hightstown                                  | Mercer     | 120              | 27                       | 42.2 <sup>a</sup>             | -1.4                       | 67       | 1†    | 18      | 14    | 26                        | 3.69   | +0.03                      | 1.30                  | 0                          | 7                              | 9      | 4           | 17                            | nw.        | E. H. Savage, Jr.         |
| Imlaystown                                  | Monmouth   | 185              | 31                       | 42.4                          | -1.9                       | 69       | 2     | 15      | 14    | 32                        | 4.47   | +0.84                      | 1.50                  | 0                          | 12                             | 13     | 5           | 12                            | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††                              | Burlington | 76               | 31                       | 43.4                          | 0.0                        | 70       | 1†    | 12      | 14    | 34                        | 4.03   | +0.43                      | 1.35                  | 0                          | 9                              | 8      | 7           | 15                            | ne.        | James M. Armstrong.       |
| Lakewood                                    | Ocean      | 54               | 17                       | 43.0                          | -0.2                       | 67       | 2     | 17      | 14    | 30                        | 5.42   | +1.77                      | 1.80                  | T.                         | 9                              | 9      | 4           | 17                            | nw.        | R. W. Holman.             |
| Moorestown                                  | Burlington | 75               | 58                       | 44.1 <sup>b</sup>             | +1.1                       | 69       | 2     | 24†     | 13    | 31 <sup>b</sup>           | .....  | .....                      | 1.98                  | 0                          | .....                          | .....  | .....       | .....                         | nw.        | Stokes Seed Farms Co.     |
| Northfield                                  | Atlantic   | 25               | 13                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.81   | +2.51                      | 1.95                  | 0                          | 13                             | .....  | .....       | .....                         | .....      | William L. Fleck.         |
| Pleasantville††                             | Atlantic   | 26               | 22                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.95   | +2.59                      | 1.99                  | 0                          | 14                             | 15     | 2           | 13                            | .....      | Lincoln Van Gilder.       |
| Trenton                                     | Mercer     | 190              | 49                       | 43.2                          | -1.2                       | 67       | 2     | 23      | 13    | 23                        | 2.14   | -1.29                      | 0.90                  | T.                         | 11                             | 7      | 4           | 19                            | ne.        | U. S. Weather Bureau.     |
| Tuckerton                                   | Ocean      | 23               | 27                       | 44.6                          | +0.6                       | 72       | 1     | 14      | 14    | 34                        | 5.72   | +2.26                      | 2.10                  | 0                          | 10                             | 5      | 13          | 12                            | ne.        | Frank R. Austin.          |
| Vineland                                    | Cumberland | 109              | 52                       | 46.3                          | +2.4                       | 73       | 2     | 20      | 14    | 29                        | 5.27   | +1.97                      | 1.71                  | 0                          | 10                             | 10     | 5           | 15                            | nw.        | H. C. Himes.              |
| Woodbine                                    | Cape May   | 43               | 29                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Jos. H. Cohen.            |
| Philadelphia, Pa.                           |            | 117              | 50                       | 46.0                          | +1.1                       | 70       | 2     | 27      | 13    | 21                        | 4.05   | +0.99                      | 2.20                  | 0                          | 10                             | 6      | 5           | 19                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 43.9                          | 0.0                        | 74       | 1     | 12      | 14    | 34                        | 4.60   | +1.01                      | 1.99                  | 0                          | 10                             | 9      | 5           | 16                            | nw.        |                           |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park                                 | Monmouth   | 22               | 31                       | 46.0 <sup>b</sup>             | +1.8                       | 67       | 1     | 22      | 13    | 25                        | 3.44   | +0.17                      | 1.45                  | 0                          | 8                              | 14     | 5           | 11                            | w.         | Information Bureau.       |
| Atlantic City                               | Atlantic   | 16               | 47                       | 46.8                          | +1.3                       | 71       | 1     | 24      | 13    | 20                        | 6.00   | +2.77                      | 3.08                  | 0                          | 14                             | 12     | 3           | 15                            | nw.        | U. S. Weather Bureau.     |
| Cape May City                               | Cape May   | 17               | 36                       | 47.8                          | +0.4                       | 70       | 1     | 26      | 14    | 20                        | 6.06   | +2.84                      | 2.24                  | 0                          | 13                             | 10     | 4           | 16                            | nw.        | U. S. Weather Bureau.     |
| Long Branch                                 | Monmouth   | 25               | 13                       | 43.5                          | -0.9                       | 69       | 1     | 20      | 13    | 21                        | 7.90   | +4.50                      | 3.78                  | T.                         | 8                              | 8      | 4           | 18                            | nw.        | William D. Martin, Jr.    |
| Sandy Hook                                  | Monmouth   | 22               | 22                       | 44.7                          | +0.2                       | 64       | 1     | 28      | 13    | 16                        | 3.60   | -0.16                      | 1.71                  | T.                         | 10                             | 5      | 9           | 16                            | w.         | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 45.8                          | +0.6                       | 71       | 1     | 20      | 13    | 25                        | 5.40   | +2.06                      | 3.78                  | 0                          | 10                             | 10     | 5           | 15                            | nw.        |                           |
| For the State                               |            |                  |                          | 43.0                          | 0.0                        | 74       | 1     | 11      | 13    | 34                        | 4.41   | +0.96                      | 3.78                  | 0.2                        | 10                             | 9      | 6           | 15                            | nw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for November, 1920.

| Stations.                                  | Watershed.      | Day of month. |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      | Total. |
|--------------------------------------------|-----------------|---------------|------|------|---|---|---|-----|-----|-----|-----|-----|-----|----|----|-----|------|------|-----|----|----|----|----|------|------|-----|-----|-----|------|-----|-----|------|--------|
|                                            |                 | 1             | 2    | 3    | 4 | 5 | 6 | 7   | 8   | 9   | 10  | 11  | 12  | 13 | 14 | 15  | 16   | 17   | 18  | 19 | 20 | 21 | 22 | 23   | 24   | 25  | 26  | 27  | 28   | 29  | 30  | 31   |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      |        |
| Belvidere.....                             | Delaware.....   |               |      | 1.04 |   |   |   |     |     |     | .20 | T   |     |    |    | .09 | .20  | 1.55 | .05 |    |    |    |    | 1.22 |      |     |     | .22 |      |     |     |      | 4.57   |
| Charlotteburg.....                         | Passaic.....    | .80           |      |      |   |   |   | .19 |     |     |     |     |     |    |    | .07 | .20  | 1.70 |     |    |    |    |    | 1.75 |      |     |     |     | 1.80 |     |     |      | 6.31   |
| Culvers Lake.....                          | Delaware.....   | .02           | .99  |      |   |   |   | .01 | .11 | .02 | T   |     | T   |    |    | .02 | .05  | 1.35 |     |    |    |    | T  | .02  | 1.63 | .02 | .08 |     | T    | .06 |     |      | 4.38   |
| Dover.....                                 | Passaic.....    | .92           |      |      |   |   |   | *   | .21 | .05 |     |     | T   |    |    | .05 | *    | 1.32 |     |    |    |    |    | *    | 1.92 |     | .04 |     |      | .07 |     |      | 4.58   |
| Layton.....                                | Delaware.....   | .34           | .61  |      |   |   |   | .04 | .06 | .03 | T   |     | T   |    |    | .09 | \$   | \$   |     |    |    |    | T  |      | \$   |     | .03 |     | .10  |     |     | \$   |        |
| Newton.....                                | Delaware.....   | .07           | 1.00 |      |   |   |   | .08 | .09 | .02 | .02 |     | T   |    |    | .06 | .06  | 1.48 |     |    |    |    |    | .16  | 1.34 | .03 | .11 |     | T    | .09 |     |      | 4.61   |
| Phillipsburg.....                          | do.....         | .75           | .01  |      |   |   |   | .16 | .01 | T   |     |     |     |    |    | .09 | 1.14 | .55  |     |    |    |    |    | 1.01 | .04  | .01 | .11 |     | .05  | T   |     | T    | 3.93   |
| Sussex.....                                | Hudson.....     | .02           | .76  |      |   |   |   |     |     | .01 |     |     |     |    |    | .01 | .15  | 1.02 |     |    |    |    |    | .01  | 1.70 | .03 | T   |     | .17  |     |     |      | 3.88   |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      |        |
| Bergen Point.....                          | Coast.....      |               | .76  |      |   |   |   | .03 | T   | .14 |     |     |     |    |    | T   | \$   | \$   |     |    |    |    |    | .10  | 1.10 | T   |     |     | .03  |     |     | \$   |        |
| Boonton   .....                            | Passaic.....    |               | .83  |      |   |   |   | .19 |     |     | T   |     |     |    |    | T   | .03  | 1.45 | .05 |    |    |    |    | .10  | 1.52 | T   |     | T   | .02  | T   | .03 |      | 4.09   |
| Chatham  .....                             | do.....         |               | .72  |      |   |   |   | .19 |     |     |     |     |     |    |    | T   | .02  | 1.57 |     |    |    |    |    | .15  |      | .01 |     | .03 |      |     |     | 4.08 |        |
| Elizabeth.....                             | Coast.....      | T             | .65  |      |   |   |   | .13 |     | T   |     |     |     |    |    | T   | .25  | 1.60 |     |    |    |    |    | *    | 1.15 | T   | .02 |     | .02  |     |     |      | 3.82   |
| Flemington.....                            | Raritan.....    |               | .50  |      |   |   |   | .08 | T   |     | T   |     | .03 |    |    | .05 | .35  | 1.20 |     |    |    |    |    | .18  | .84  |     | .08 |     | T    | .10 |     |      | 3.39   |
| Highwood.....                              | Hackensack..... | .20           | .59  |      |   |   |   | .08 | .06 | T   |     |     |     |    |    | .02 | .50  | 1.25 |     |    |    |    |    | .08  | 1.26 | .03 | .03 |     | T    | .10 |     |      | 4.20   |
| Jersey City.....                           | Coast.....      |               | .60  |      |   |   |   | .05 | .08 |     | T   |     | T   |    |    | .01 | .30  | 1.40 |     |    |    |    |    | T    | 1.12 | T   | T   |     | T    | .02 |     |      | 3.58   |
| Kearny.....                                | Coast.....      | *             | .74  |      |   |   |   | *   | .14 | T   |     | T   |     |    |    | T   | *    | 2.00 |     |    |    |    |    | *    | 1.00 |     | T   |     | T    | *   |     |      | 3.88   |
| Lambertville.....                          | Delaware.....   | T             | T    |      |   |   |   | T   |     | T   |     |     | T   |    |    | T   | *    | 2.08 |     |    |    |    |    | *    | 1.18 |     | .03 |     | *    |     |     |      | 3.36   |
| Little Falls.    .....                     | Passaic.....    |               | .79  |      |   |   |   | .18 |     | T   |     |     |     |    |    |     | .04  | 1.90 | .03 |    |    |    |    |      | 1.12 | .02 |     |     | .05  |     |     |      | 4.13   |
| Newark**.....                              | Coast.....      | 1.10          |      |      |   |   |   | .13 | T   | T   |     |     | T   |    |    | .04 | 2.03 | .17  |     |    |    |    |    | 1.02 | .27  | T   |     | .25 |      | .04 |     |      | 5.05   |
| New Brunswick.....                         | Raritan.....    |               | .58  |      |   |   |   | T   | .05 | T   |     |     | .03 |    |    | T   | .22  | 1.34 |     |    |    |    |    | .06  | 1.74 |     | T   |     | .01  |     |     |      | 4.03   |
| New Milford.....                           | Hackensack..... |               |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      |        |
| Paterson.....                              | Passaic.....    | T             | .48  |      |   |   |   | .02 | .13 |     | T   |     |     |    |    | T   | .36  | 1.38 |     |    |    |    |    | T    | .83  |     | T   |     | T    | .02 |     |      | 3.22   |
| Plainfield.....                            | Raritan.....    |               | .05  | .37  |   |   |   | .04 | .03 | T   |     | T   |     |    |    | .02 | .39  | 1.10 |     |    |    |    |    | .17  | 1.78 | T   | .02 |     | .03  | T   |     |      | 4.00   |
| Ridgefield**.....                          | Hackensack..... | *             | .84  |      |   |   |   | *   | .17 | .02 |     |     |     |    |    | .02 | *    | 1.68 |     |    |    |    |    | *    | 1.18 | .03 | .01 |     | .05  |     |     |      | 4.00   |
| Somerville.....                            | Raritan.....    |               | .35  |      |   |   |   | .07 |     |     |     |     |     |    |    | .05 | .25  | 1.30 |     |    |    |    |    | *    | 1.30 |     | .05 |     |      |     |     |      | 3.37   |
| South Orange.....                          | Rahway.....     | .06           | .54  |      |   |   |   | .10 | .06 | .02 |     |     | T   |    |    | .03 | .37  | 1.08 |     |    |    |    |    | .19  | .77  | T   | .05 |     | .02  | .03 |     |      | 3.34   |
| Woodcliff Lake.....                        | Hackensack..... |               |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      |        |
| New York, N. Y***                          | Coast.....      | .62           | .01  |      |   |   |   | .11 | .02 | T   |     | T   |     |    |    | .02 | 1.17 | .56  |     |    |    |    |    | .33  | .68  | T   | T   |     | .04  | T   |     |      | 3.56   |
| <i>The Southern Interior.</i>              |                 |               |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      |        |
| Bridgeton.....                             | Coast.....      | .75           |      |      |   |   |   | *   | .15 | .08 |     | .03 | .12 |    |    | .15 | .55  | .85  |     |    |    |    |    | .70  | .45  | T   |     | .25 |      | *   | .10 | T    | 3.93   |
| Burlington.....                            | Delaware.....   |               | .72  |      |   |   |   |     |     |     | T   |     | .04 |    |    |     | .60  | 1.40 |     |    |    |    |    | .35  | .65  |     | T   |     | *    |     |     |      | 4.01   |
| Camp Dix.....                              | Delaware.....   | .96           |      |      |   |   |   | .02 |     | .04 |     | .06 |     |    |    | .14 | 1.65 | .04  |     |    |    |    |    | .03  | 1.26 | .04 | .04 |     | .07  | .06 |     |      | 5.57   |
| Clayton.....                               | Maurice.....    |               | .58  |      |   |   |   | T   |     |     |     |     |     |    |    | T   | .93  |      |     |    |    |    |    | .65  |      | .77 | T   |     | .16  | .05 | T   | 3.14 |        |
| Hammononton.....                           | Mullica.....    |               | 1.61 |      |   |   |   | T   |     | T   |     |     |     |    |    | T   | .72  | 1.55 |     |    |    |    |    | .28  | .93  |     | T   |     | .16  |     |     |      | 5.25   |
| Hightstown.....                            | Raritan.....    |               | .72  |      |   |   |   | T   |     |     |     | T   |     |    |    |     | .52  | .80  |     |    |    |    |    | .22  | 1.30 | .03 |     | T   | .10  |     |     |      | 3.69   |
| Imlaytown.....                             | Delaware.....   |               | .85  | T    |   |   |   | T   | .02 | T   | .01 |     | .08 | T  |    |     | .39  | 1.36 |     |    |    |    |    | .11  | 1.50 |     | .03 |     | T    | .10 |     | .01  | 4.47   |
| Indian Mills.....                          | Mullica.....    |               | .84  |      |   |   |   | T   |     |     |     | T   | .21 |    |    | T   | .40  | 1.35 |     |    |    |    |    | .30  | .75  |     | T   | .06 |      | .10 |     |      | 4.03   |
| Lakewood.....                              | Metedeconk..... | T             | 1.57 |      |   |   |   | .02 | .02 | T   |     | .03 |     |    |    | T   | .60  | 1.80 |     |    |    |    |    | .12  | 1.16 |     | T   | .10 | T    |     |     |      | 5.42   |
| Moorestown.....                            | Delaware.....   |               | .47  |      |   |   |   | .03 |     |     |     |     |     |    |    | .02 | .70  | 1.98 |     |    |    |    |    | .20  | 1.05 |     | .01 |     | .10  |     |     |      | \$     |
| Northfield.....                            | Coast.....      |               | 1.47 |      |   |   |   | .02 |     | .02 |     | .11 | .17 |    |    | .02 | .85  | 1.95 |     |    |    |    |    | .26  | .57  |     | .01 |     | .04  | .32 |     |      | 5.81   |
| Pleasantville.....                         | Coast.....      | .02           | 1.35 |      |   |   |   | T   |     | .02 |     | .10 | .21 |    |    | .03 | 1.10 | 1.99 |     |    |    |    |    | .24  | .57  |     | .02 |     | .04  | .24 |     |      | 5.95   |
| Trenton***.....                            | Delaware.....   | .33           |      |      |   |   |   | .02 |     | T   |     | .01 |     |    |    | T   | .65  | .26  |     |    |    |    |    | .77  | .01  |     | .02 |     | .02  | .02 |     | .03  | 2.14   |
| Tuckerton.....                             | Coast.....      |               | 1.42 |      |   |   |   | T   | .08 | T   | .02 | .26 |     |    |    | .04 | .60  | 2.10 |     |    |    |    |    | .26  | .80  |     | .02 |     | .14  |     |     |      | 5.72   |
| Vineland.....                              | Maurice.....    |               | 1.30 |      |   |   |   | .02 |     | .02 |     | .15 |     |    |    |     | .60  | 1.71 |     |    |    |    |    | *    | 1.30 |     | .02 |     |      | .15 |     |      | 5.27   |
| Woodbine.....                              | Coast.....      |               |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      |        |
| Philadelphia, Pa.....                      | Delaware.....   | .32           |      |      |   |   |   | .01 |     | T   |     | .01 | T   |    |    | T   | 1.42 | .79  |     |    |    |    |    | 1.33 | T    | T   | .05 |     | .01  | .01 |     | .10  | 4.05   |
| <i>The Sea Coast.</i>                      |                 |               |      |      |   |   |   |     |     |     |     |     |     |    |    |     |      |      |     |    |    |    |    |      |      |     |     |     |      |     |     |      |        |
| Asbury Park.....                           | Coast.....      |               | .50  |      |   |   |   | *   | .05 |     |     |     |     |    |    |     | *    | 1.45 |     |    |    |    |    | *    | .97  |     |     |     | .07  |     |     |      | 3.44   |
| Atlantic City***.....                      | do.....         |               | .54  | .84  |   |   |   | T   |     | .03 |     | .26 | .02 |    |    | .04 | 2.15 | .97  |     |    |    |    |    | .69  | .01  |     | .01 |     | .08  | .34 |     | .02  | 6.00   |
| Cape May City.....                         | do.....         |               | .02  | 1.45 |   |   |   |     | .05 |     | .30 | .03 |     |    |    | .03 | 1.32 | 1.18 |     |    |    |    |    | .42  | .48  |     |     |     | .08  |     |     |      | 6.06   |
| Long Branch**.....                         | do.....         | 1.05          | .11  |      |   |   |   | .03 | .10 |     |     |     |     |    |    |     | 1.07 | 1.76 |     |    |    |    |    | 2.01 | 1.77 |     | T   |     | .01  |     |     |      | 7.90   |
| Sandy Hook***.....                         | do.....         |               | .39  | .14  |   |   |   | .06 | .05 | T   | T   | T   |     |    |    | T   | 1.01 | .71  |     |    |    |    |    | .29  | .92  |     | T   |     | .01  | .02 |     |      | 3.60   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.14         | 30.57    | 29    | 29.36   | 17    | 8                | 32              | s.         | 2         | 81                                         | 74                                         | 44                                  |
| Cape May City.....    | 30.17         | 30.58    | 29    | 29.60   | 17    | 9                | 42              | ne.        | 16        | 83                                         | 79                                         | 44                                  |
| Long Branch.....      |               |          |       |         |       |                  | 85              | ne.        | 17        |                                            |                                            |                                     |
| Newark.....           |               |          |       |         |       |                  |                 |            |           | 77                                         | 65                                         | 47                                  |
| New York, N. Y.....   | 30.12         | 30.60    | 29    | 29.33   | 17    | 18               | 70              | nw.        | 17        | 70                                         | 69                                         | 39                                  |
| Philadelphia, Pa..... | 30.15         | 30.59    | 29    | 29.33   | 17    | 10               | 46              | ne.        | 16        | 79                                         | 78                                         | 40                                  |
| Ridgefield.....       | 30.11         | 30.60    | 29    | 29.27   | 17    |                  |                 |            |           |                                            |                                            |                                     |
| Sandy Hook.....       | 30.12         | 30.59    | 29    | 29.33   | 17    | 18               | 66              | ne.        | 17        | 83                                         | 83                                         | 44                                  |
| Trenton.....          | 30.12         | 30.59    | 29    | 29.33   | 17    | 11               | 52              | ne.        | 12        | 77                                         | 72                                         | 41                                  |

§ Two directions and dates

\* 7 a. m. † 9 p. m.

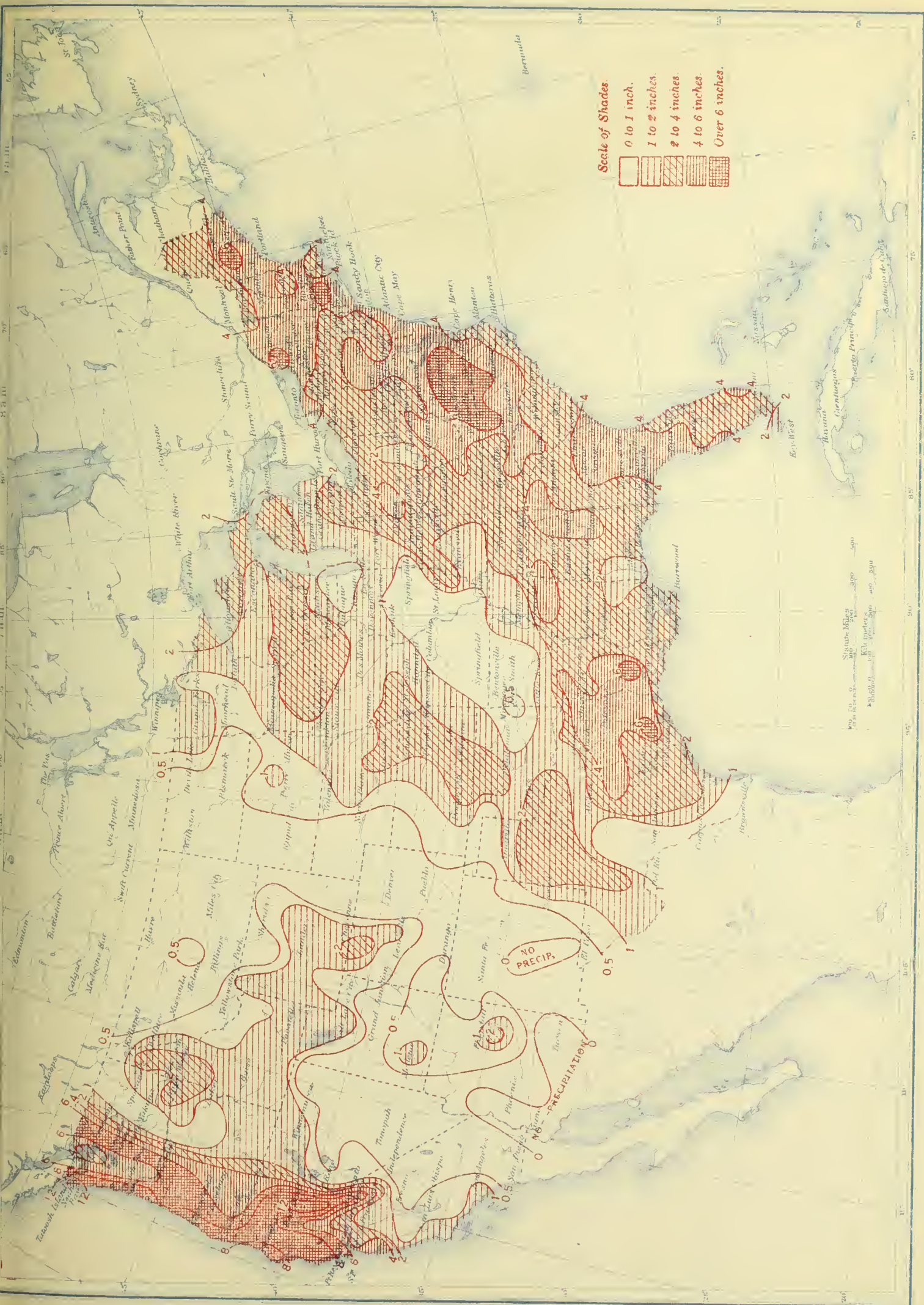


Daily Temperatures for November, 1920.

| Stations.                                  | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30    | 31    | Mean. |      |
|--------------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|------|
| <i>The Highlands and Kittatinny Valley</i> |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |       |      |
| Belvidere.....                             | Maximum | 66 | 64 | 56 | 59 | 62 | 56 | 48 | 56 | 54 | 49 | 46 | 44 | 41 | 35 | 36 | 38 | 50 | 52 | 54 | 48 | 43 | 46 | 40 | 41 | 43 | 42 | 40 | 36 | 44    | 47.7  |       |      |
|                                            | Minimum | 41 | 44 | 29 | 37 | 36 | 32 | 38 | 40 | 35 | 35 | 32 | 31 | 26 | 18 | 22 | 32 | 32 | 32 | 39 | 34 | 33 | 34 | 38 | 37 | 31 | 29 | 30 | 34 | 27    | 33    | 35.4  |      |
| Charlotteburg.....                         | Maximum | 63 | 62 | 59 | 58 | 58 | 53 | 52 | 50 | 56 | 57 | 50 | 43 | 44 | 44 | 39 | 39 | 40 | 42 | 49 | 49 | 46 | 44 | 46 | 43 | 41 | 40 | 39 | 38 | 39    | 43    | 47.5  |      |
|                                            | Minimum | 49 | 44 | 36 | 33 | 39 | 28 | 35 | 37 | 28 | 41 | 27 | 28 | 19 | 15 | 16 | 31 | 31 | 34 | 31 | 28 | 33 | 34 | 38 | 32 | 29 | 30 | 32 | 31 | 25    | 21    | 31.2  |      |
| Dover.....                                 | Maximum | 68 | 64 | 60 | 58 | 60 | 57 | 48 | 58 | 57 | 55 | 43 | 43 | 40 | 40 | 34 | 35 | 45 | 50 | 50 | 43 | 42 | 40 | 39 | 41 | 39 | 39 | 39 | 45 | 47.7* |       |       |      |
|                                            | Minimum | 45 | 44 | 37 | 35 | 35 | 31 | 37 | 34 | 32 | 33 | 31 | 22 | 20 | 17 | 20 | 33 | 34 | 34 | 32 | 35 | 36 | 37 | 36 | 32 | 29 | 33 | 34 | 27 | 41    | 32.3* |       |      |
| Layton.....                                | Maximum | 65 | 62 | 60 | 58 | 59 | 56 | 47 | 55 | 57 | 57 | 50 | 39 | 40 | 40 | 38 | 39 | 40 | 42 | 49 | 50 | 46 | 38 | 43 | 40 | 38 | 42 | 39 | 38 | 41    | 42    | 46.8  |      |
|                                            | Minimum | 39 | 42 | 34 | 34 | 33 | 30 | 33 | 38 | 30 | 35 | 26 | 26 | 16 | 14 | 12 | 30 | 31 | 35 | 25 | 32 | 30 | 32 | 37 | 31 | 28 | 31 | 33 | 32 | 28    | 28    | 30.4  |      |
| Newton.....                                | Maximum | 63 | 62 | 60 | 55 | 58 | 55 | 48 | 51 | 56 | 55 | 43 | 38 | 38 | 40 | 33 | 33 | 40 | 46 | 48 | 44 | 45 | 41 | 40 | 36 | 40 | 38 | 36 | 42 | 42    | 42    | 45.7  |      |
|                                            | Minimum | 43 | 41 | 36 | 37 | 37 | 39 | 38 | 38 | 38 | 36 | 30 | 25 | 18 | 20 | 23 | 31 | 31 | 34 | 31 | 38 | 38 | 44 | 45 | 41 | 40 | 36 | 40 | 38 | 36    | 38    | 42    | 47.1 |
| Phillipsburg.....                          | Maximum | 65 | 63 | 55 | 58 | 60 | 56 | 46 | 55 | 58 | 56 | 45 | 39 | 39 | 40 | 35 | 37 | 42 | 49 | 50 | 52 | 44 | 42 | 44 | 39 | 40 | 42 | 41 | 40 | 37    | 43    | 47.1  |      |
|                                            | Minimum | 45 | 48 | 40 | 38 | 38 | 37 | 38 | 38 | 37 | 36 | 34 | 28 | 21 | 24 | 32 | 35 | 36 | 31 | 36 | 34 | 35 | 38 | 32 | 32 | 32 | 32 | 35 | 35 | 27    | 34    | 34.4  |      |
| Sussex.....                                | Maximum | 64 | 57 | 60 | 59 | 58 | 55 | 49 | 53 | 55 | 56 | 48 | 44 | 44 | 44 | 38 | 35 | 41 | 49 | 51 | 58 | 50 | 40 | 43 | 42 | 46 | 43 | 40 | 37 | 44    | 43    | 48.1  |      |
|                                            | Minimum | 39 | 41 | 35 | 32 | 32 | 29 | 34 | 35 | 30 | 40 | 34 | 30 | 19 | 14 | 21 | 32 | 31 | 34 | 29 | 37 | 28 | 32 | 37 | 33 | 33 | 30 | 34 | 32 | 26    | 25    | 31.3  |      |
| <i>The Red Sandstone Plain.</i>            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |       |      |
| Bergen Point.....                          | Maximum | 69 | 65 | 68 | 62 | 56 | 59 | 53 | 64 | 63 | 63 | 45 | 48 | 44 | 45 | 38 | 41 | 51 | 53 | 52 | 54 | 51 | 48 | 48 | 45 | 42 | 46 | 43 | 43 | 40    | 48    | 51.6  |      |
|                                            | Minimum | 44 | 47 | 44 | 38 | 36 | 39 | 41 | 44 | 40 | 41 | 37 | 27 | 23 | 21 | 26 | 35 | 38 | 37 | 32 | 40 | 40 | 38 | 41 | 35 | 32 | 30 | 36 | 39 | 31    | 32    | 36.2  |      |
| Boonton§§.....                             | Maximum | 68 | 68 | 56 | 59 | 61 | 58 | 51 | 56 | 60 | 52 | 49 | 46 | 43 | 45 | 37 | 43 | 50 | 51 | 51 | 52 | 43 | 45 | 46 | 45 | 40 | 44 | 42 | 43 | 44    | 47    | 49.8  |      |
|                                            | Minimum | 40 | 45 | 41 | 32 | 36 | 37 | 35 | 40 | 32 | 39 | 31 | 32 | 23 | 19 | 19 | 29 | 33 | 33 | 32 | 32 | 36 | 35 | 38 | 35 | 31 | 29 | 34 | 35 | 28    | 28    | 33.0  |      |
| Elizabeth.....                             | Maximum | 70 | 67 | 64 | 62 | 64 | 61 | 52 | 55 | 63 | 60 | 46 | 47 | 44 | 44 | 39 | 38 | 50 | 54 | 52 | 55 | 49 | 46 | 47 | 46 | 43 | 47 | 43 | 42 | 41    | 49    | 51.3  |      |
|                                            | Minimum | 43 | 48 | 42 | 36 | 37 | 35 | 40 | 44 | 37 | 45 | 34 | 33 | 21 | 20 | 23 | 35 | 35 | 37 | 37 | 37 | 41 | 40 | 43 | 36 | 31 | 29 | 36 | 39 | 29    | 29    | 35.6  |      |
| Flemington.....                            | Maximum | 70 | 67 | 66 | 59 | 64 | 62 | 51 | 59 | 60 | 60 | 45 | 43 | 44 | 44 | 36 | 37 | 47 | 54 | 52 | 53 | 50 | 45 | 46 | 43 | 40 | 42 | 41 | 40 | 46    | 46    | 50.3  |      |
|                                            | Minimum | 43 | 48 | 41 | 38 | 38 | 36 | 38 | 43 | 35 | 43 | 35 | 30 | 23 | 20 | 21 | 34 | 34 | 36 | 32 | 36 | 41 | 39 | 42 | 37 | 33 | 30 | 34 | 37 | 31    | 34    | 35.4  |      |
| Highwood.....                              | Maximum | 67 | 65 | 62 | 57 | 60 | 56 | 51 | 52 | 60 | 58 | 45 | 45 | 41 | 43 | 37 | 38 | 48 | 50 | 50 | 52 | 46 | 45 | 46 | 43 | 40 | 43 | 41 | 40 | 39    | 46    | 48.9  |      |
|                                            | Minimum | 42 | 48 | 41 | 38 | 38 | 36 | 38 | 43 | 35 | 43 | 35 | 30 | 23 | 20 | 17 | 22 | 33 | 36 | 34 | 29 | 34 | 37 | 38 | 35 | 31 | 27 | 35 | 37 | 31    | 28    | 33.2  |      |
| Jersey City.....                           | Maximum | 69 | 67 | 63 | 59 | 62 | 59 | 53 | 53 | 63 | 60 | 47 | 44 | 43 | 45 | 38 | 41 | 51 | 52 | 51 | 53 | 50 | 47 | 48 | 45 | 41 | 45 | 43 | 43 | 40    | 48    | 50.8  |      |
|                                            | Minimum | 48 | 48 | 43 | 42 | 42 | 44 | 43 | 45 | 44 | 43 | 40 | 32 | 25 | 27 | 30 | 36 | 37 | 39 | 36 | 43 | 42 | 40 | 43 | 38 | 33 | 33 | 39 | 39 | 34    | 35    | 38.8  |      |
| Kearny.....                                | Maximum | 66 | 62 | 62 | 55 | 60 | 55 | 50 | 53 | 60 | 60 | 42 | 44 | 44 | 42 | 37 | 38 | 43 | 45 | 52 | 48 | 49 | 42 | 42 | 42 | 35 | 40 | 42 | 40 | 37    | 46    | 48.1* |      |
|                                            | Minimum | 47 | 52 | 42 | 41 | 43 | 43 | 41 | 43 | 42 | 40 | 36 | 27 | 24 | 27 | 32 | 35 | 37 | 38 | 37 | 44 | 39 | 39 | 39 | 34 | 32 | 32 | 38 | 36 | 36    | 32    | 37.6  |      |
| Lambertville.....                          | Maximum | 64 | 65 | 66 | 60 | 63 | 56 | 48 | 61 | 60 | 59 | 45 | 45 | 38 | 40 | 40 | 40 | 40 | 46 | 50 | 54 | 50 | 46 | 44 | 44 | 44 | 40 | 48 | 40 | 45    | 49    | 49.9* |      |
|                                            | Minimum | 38 | 41 | 38 | 38 | 36 | 33 | 34 | 38 | 40 | 42 | 35 | 28 | 21 | 16 | 21 | 32 | 32 | 36 | 29 | 37 | 40 | 38 | 36 | 32 | 32 | 28 | 32 | 34 | 28    | 34    | 33.3  |      |
| Little Falls.....                          | Maximum | 67 | 64 | 56 | 58 | 60 | 58 | 55 | 55 | 61 | 52 | 51 | 51 | 50 | 43 | 41 | 47 | 51 | 52 | 51 | 56 | 46 | 42 | 45 | 46 | 46 | 46 | 46 | 42 | 43    | 48    | 51.1* |      |
|                                            | Minimum | 49 | 47 | 43 | 37 | 43 | 37 | 39 | 41 | 36 | 41 | 36 | 36 | 25 | 23 | 26 | 34 | 34 | 39 | 36 | 36 | 40 | 41 | 39 | 37 | 34 | 39 | 39 | 34 | 37    | 32    | 37.2* |      |
| Newark.....                                | Maximum | 68 | 62 | 56 | 57 | 59 | 57 | 51 | 55 | 62 | 57 | 45 | 45 | 41 | 42 | 38 | 39 | 50 | 51 | 51 | 53 | 45 | 45 | 44 | 43 | 38 | 42 | 39 | 39 | 40    | 47    | 48.7  |      |
|                                            | Minimum | 45 | 49 | 42 | 43 | 42 | 44 | 43 | 44 | 44 | 40 | 37 | 27 | 25 | 28 | 31 | 35 | 38 | 38 | 37 | 44 | 39 | 39 | 39 | 33 | 32 | 32 | 32 | 30 | 36    | 37    | 37.5  |      |
| New Brunswick.....                         | Maximum | 67 | 70 | 69 | 59 | 60 | 58 | 55 | 54 | 62 | 61 | 46 | 45 | 40 | 43 | 40 | 38 | 51 | 51 | 52 | 54 | 51 | 50 | 48 | 45 | 45 | 44 | 45 | 43 | 41    | 48    | 51.2  |      |
|                                            | Minimum | 45 | 48 | 41 | 37 | 39 | 38 | 41 | 51 | 54 | 62 | 50 | 48 | 46 | 45 | 46 | 38 | 38 | 48 | 53 | 52 | 59 | 50 | 43 | 45 | 45 | 44 | 40 | 46 | 43    | 41    | 47    | 50.8 |
| Paterson.....                              | Maximum | 71 | 63 | 62 | 63 | 64 | 61 | 51 | 54 | 62 | 59 | 48 | 46 | 45 | 46 | 46 | 38 | 38 | 48 | 53 | 52 | 59 | 50 | 43 | 45 | 45 | 40 | 46 | 43 | 41    | 47    | 50.8  |      |
|                                            | Minimum | 45 | 46 | 41 | 38 | 39 | 40 | 40 | 40 | 43 | 40 | 40 | 44 | 42 | 41 | 37 | 38 | 48 | 53 | 52 | 52 | 47 | 45 | 47 | 44 | 40 | 45 | 43 | 44 | 42    | 48    | 50.0  |      |
| Plainfield.....                            | Maximum | 69 | 67 | 62 | 58 | 62 | 60 | 52 | 53 | 62 | 56 | 44 | 44 | 42 | 41 | 37 | 38 | 48 | 53 | 52 | 52 | 47 | 45 | 47 | 44 | 40 | 45 | 43 | 44 | 42    | 48    | 50.0  |      |
|                                            | Minimum | 36 | 46 | 39 | 32 | 32 | 31 | 40 | 40 | 33 | 37 | 33 | 28 | 17 | 17 | 19 | 33 | 34 | 37 | 30 | 34 | 40 | 39 | 42 | 34 | 29 | 30 | 38 | 35 | 27    | 27    | 33.0  |      |
| Ridgefield.....                            | Maximum | 68 | 64 | 61 | 57 | 60 | 56 | 52 | 53 | 62 | 57 | 44 | 45 | 41 | 43 | 37 | 39 | 49 | 50 | 50 | 53 | 44 | 45 | 46 | 43 | 38 | 45 | 42 | 40 | 48    | 45    | 48.9  |      |
|                                            | Minimum | 44 | 44 | 41 | 36 | 39 | 36 | 37 | 38 | 37 | 35 | 33 | 25 | 21 | 22 | 25 | 33 | 38 | 35 | 42 | 37 | 38 | 38 | 37 | 33 | 32 | 28 | 35 | 3  | 30    | 32    | 34.3  |      |
| Somerville.....                            | Maximum | 70 | 68 | 68 | 63 | 64 | 54 | 56 | 60 | 61 | 62 | 46 | 45 | 44 | 46 | 37 | 39 | 44 | 55 | 52 | 56 | 50 | 48 | 48 | 46 | 42 | 44 | 42 | 44 | 41    | 48    | 51.5  |      |
|                                            | Minimum | 40 | 46 | 40 | 35 | 34 | 34 | 45 | 42 | 35 | 44 | 36 | 33 | 22 | 20 | 23 | 35 | 34 | 35 | 32 | 36 | 42 | 40 | 40 | 36 | 32 | 30 | 34 | 38 | 31    | 34    | 35.3  |      |
| South Orange.....                          | Maximum | 66 | 64 | 63 | 57 | 59 | 56 | 51 | 52 | 60 | 58 | 53 | 50 | 47 | 41 | 41 | 38 | 48 | 52 | 50 | 53 | 48 | 46 | 45 | 44 | 42 | 44 | 42 | 41 | 39    | 48    | 49.9  |      |
|                                            | Minimum | 45 | 46 | 41 | 37 | 39 | 39 | 40 | 40 | 38 | 39 | 36 | 26 | 23 | 24 | 28 | 34 | 37 | 40 | 41 | 40 | 41 | 53 | 52 | 51 | 53 | 47 | 47 | 47 | 46    | 42    | 49    | 50.0 |
| New York, N. Y.....                        | Maximum | 67 | 62 | 57 | 58 | 60 | 57 | 51 | 53 | 61 | 58 | 47 | 44 | 42 | 41 | 40 | 41 | 53 | 52 | 51 | 53 | 47 | 47 | 47 | 46 | 40 | 45 | 43 | 45 | 42    | 49    | 50.0  |      |
|                                            | Minimum | 48 | 46 | 43 | 42 | 43 | 44 | 44 | 43 | 46 | 40 | 39 | 27 | 25 | 29 | 33 | 36 | 36 | 38 | 35 | 43 | 41 | 40 | 38 | 35 | 32 | 35 | 39 | 36 | 34    | 38    | 38.3  |      |
| <i>The Southern Interior.</i>              |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |       |      |
| Bridgeton.....                             | Maximum | 74 | 69 | 64 | 62 | 62 | 58 | 55 | 61 | 64 | 58 | 46 | 44 | 42 | 45 | 40 | 40 | 52 | 58 | 62 | 67 | 54 | 51 | 46 | 50 | 50 | 48 | 47 | 41 | 50</  |       |       |      |

\* , b , etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.



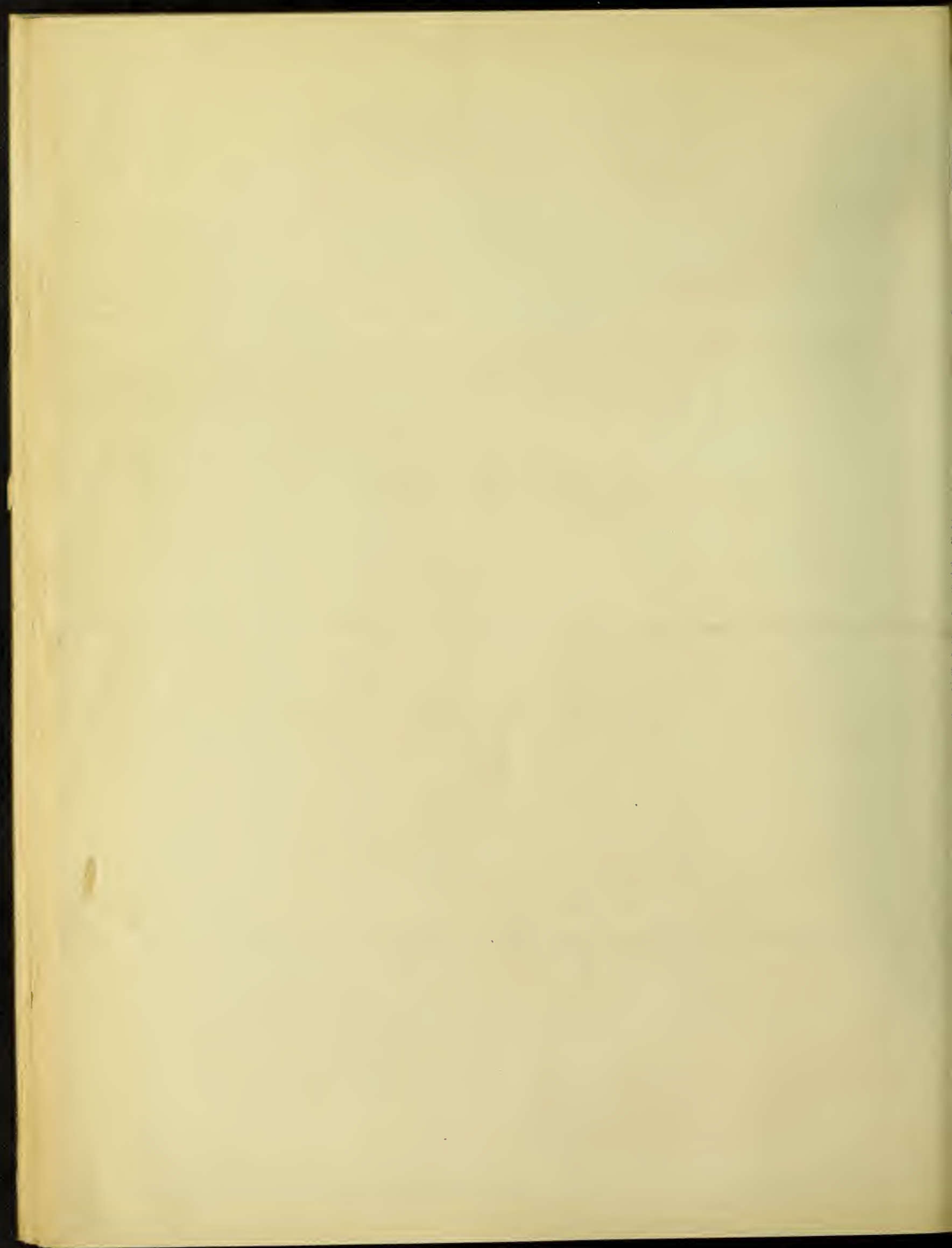


Scale of Shades



Scale of Miles  
0 100 200 300 400 500  
Scale of Kilometers  
0 100 200 300 400 500







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U. S. DEPARTMENT OF AGRICULTURE  
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

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# CLIMATOLOGICAL DATA

## NEW JERSEY SECTION

DECEMBER, 1920.

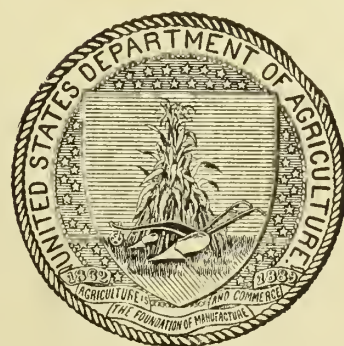
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BY

G. HAROLD NOYES

METEOROLOGIST

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TRENTON, N. J.  
WEATHER BUREAU OFFICE  
JANUARY 28, 1921.



Departure of the Mean Temperature from the Normal, December, 1920.



Shaded portions show excess (+).  
 Unshaded portions show deficiency (-).  
 Lines show amount of excess or deficiency.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

Vol. XXV. TRENTON, N. J., DECEMBER, 1920. No. 12.

## GENERAL SUMMARY.

The weather was notable for its almost total absence of typical rigorous winter weather. From the central portion of the State southward there was not enough snow to be noticeable, and but little ice formed over streams and ponds, but in northern counties there were several inches of ice at the close of the month. Except from the 18th to 20th, and from the 25th to 29th, temperatures were mostly normal or considerably above, being about 10° above normal on the 14th and 23d. In comparison with other years, this December has been one of the remarkably warm months, although it was slightly warmer two years ago, as well as in 1911, 1912 and 1913. This warmth was an agreeable contrast to the cold of last December and the record-breaking cold of December 1917. In regard to precipitation, which was practically all rain, December of this year has supplied a larger amount, except in 1914, than in any year since 1902. A fair amount of sunshine and pleasant weather afforded opportunities for out-door occupations, and building operations, and such farm work as plowing and hauling were carried on to the close of the month.

Storm warnings were displayed along the coast on the 5th, 13th, 22d, 23d, 26th, and 27th.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 40 stations, was 36.4°, which was 3.4° above the normal. The highest temperature was 69° at Clayton on the 4th, and the lowest, 1° below zero at Culvers Lake on the 29th. The greatest daily range of temperature was 32° at Indians Mills on the 12th and Somerville on the 14th. The highest monthly mean was 40.0° at Cape May City, and the lowest, 1.8° at Layton.

The temperature departure from the normal for the year 1920 to date, by sections, is: The Highlands, -0.5°; Red Sandstone Plain, -0.2°; Southern Interior, -0.3°; Sea Coast. -0.6°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 47 stations, was 5.10 inches, which was 1.34 inches above the normal. The greatest monthly precipitation was 6.63 inches at Little Falls, and the least, 2.86 inches at Camp Dix. The average total snowfall was 1.0 inch, which was 5.3 inches below the normal; this average ranged from 2.7 inches in the Highlands to 0.1 inch on the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 2.20 inches at Charlotteburg on the 14th. The average number of days on which 0.01 inch or more of precipitation fell was 8, one less than the normal.

The precipitation accumulated departure from the normal for the year 1920 to date, by sections, is: The Highlands, +8.24; Red Sandstone Plain, +5.26; Southern Interior, +1.09; Sea Coast, +1.86.

## WIND.

The prevailing wind direction was from the northwest, which was normal. The wind movement was approximately 13 miles per hour, which was probably near the normal. The highest velocity, sustained for 5 consecutive minutes, was 63 miles per hour from the northwest at Long Branch on the 5th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which was 1 less than the normal; partly cloudy days, 8, or 1 less than the normal; cloudy, 12, or 2 more than the normal. The approximate per cent of possible sunshine was 51, and was somewhat below the normal.

## MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.10 inches, or normal. The highest reading was 30.60 inches at Cape May City on the 21st, and the lowest, 29.35 inches at Ridgefield and Sandy Hook on the 14th.

The mean stage of the Delaware River at Phillipsburg was 5.9 feet, and the highest, 11.5 feet, on the 3d. At Trenton the mean daily stage was 3.9 feet, which was 2.3 feet above the normal. The highest stage was 6.9 feet on the 3d, and the lowest, 2.4 feet on the 30th.

Dense fog occurred on the 1st, 4th, 22d, 23d, and 27th. Haze was noted on the 4th. Sleet was observed at a few stations on the 9th and 22d, and quite generally throughout the State on the 10th, 26th, and 27th. The amounts were small. Solar halos were observed on the 3d and 19th, and lunar halos on the 21st and 30th. Thunderstorms occurred in some portions of the State on the 1st, 2d, and 14th, and in most portions on the 5th. Some hail was observed in northern counties during the storms of the 1st and 14th.

## COMPARATIVE DATA FOR DECEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 35.3         | 60       | 6       | 3.15           | 4.33      | 2.47   | .....        | .....          | .....   | .....                  |
| 1886..... | 29.1         | 60       | -2      | 3.51           | 4.65      | 1.62   | .....        | .....          | .....   | .....                  |
| 1887..... | 33.7         | 62       | 6       | 5.29           | 7.32      | 3.64   | .....        | .....          | 12      | 10                     |
| 1888..... | 34.9         | 65       | 5       | 3.69           | 4.95      | 2.05   | .....        | .....          | 8       | 8                      |
| 1889..... | 41.5         | 71       | 8       | 1.62           | 3.69      | 0.25   | .....        | .....          | 9       | 9                      |
| 1890..... | 30.9         | 56       | 3       | 3.89           | 5.74      | 2.34   | 11           | 10             | 10      | 8                      |
| 1891..... | 40.9         | 71       | 9       | 4.25           | 5.32      | 2.25   | 13           | 9              | 9       | 8                      |
| 1892..... | 30.4         | 68       | 1       | 1.87           | 3.09      | 1.30   | 9            | 11             | 11      | 6                      |
| 1893..... | 34.9         | 70       | 5       | 3.39           | 4.66      | 1.67   | 11           | 10             | 10      | 11                     |
| 1894..... | 34.8         | 66       | -3      | 4.36           | 6.39      | 1.64   | 12           | 9              | 10      | 9                      |
| 1895..... | 37.2         | 70       | 3       | 2.61           | 5.42      | 1.71   | 11           | 9              | 11      | 6                      |
| 1896..... | 31.3         | 64       | -15     | 1.43           | 2.70      | 0.85   | 14           | 9              | 8       | 4                      |
| 1897..... | 35.1         | 69       | -3      | 4.90           | 6.44      | 3.07   | 8            | 11             | 12      | 11                     |
| 1898..... | 33.3         | 66       | -2      | 3.53           | 4.85      | 2.38   | 12           | 10             | 9       | 9                      |
| 1899..... | 35.5         | 69       | -1      | 2.11           | 4.30      | 1.29   | 14           | 10             | 7       | 7                      |
| 1900..... | 34.4         | 64       | -2      | 2.59           | 3.97      | 1.47   | 14           | 10             | 7       | 6                      |
| 1901..... | 32.6         | 68       | -8      | 7.30           | 8.45      | 4.87   | 12           | 9              | 10      | 11                     |
| 1902..... | 31.7         | 62       | -11     | 7.23           | 8.99      | 5.81   | 13           | 7              | 11      | 13                     |
| 1903..... | 28.6         | 56       | -13     | 4.08           | 5.49      | 3.20   | 14           | 9              | 8       | 9                      |
| 1904..... | 27.0         | 60       | -15     | 3.19           | 5.38      | 2.06   | 10           | 7              | 14      | 12                     |
| 1905..... | 36.3         | 61       | 5       | 3.65           | 5.60      | 2.58   | 14           | 8              | 9       | 7                      |
| 1906..... | 33.0         | 70       | -5      | 3.99           | 6.18      | 2.70   | 9            | 8              | 14      | 13                     |
| 1907..... | 36.6         | 70       | -3      | 4.91           | 7.13      | 3.55   | 12           | 8              | 11      | 9                      |
| 1908..... | 34.0         | 72       | 1       | 3.63           | 5.26      | 2.10   | 10           | 8              | 13      | 11                     |
| 1909..... | 29.8         | 60       | -15     | 4.45           | 5.51      | 3.55   | 14           | 8              | 9       | 5                      |
| 1910..... | 26.5         | 58       | -14     | 2.79           | 4.60      | 1.92   | 11           | 10             | 10      | 9                      |
| 1911..... | 38.4         | 70       | 2       | 3.77           | 5.09      | 2.94   | 10           | 7              | 14      | 11                     |
| 1912..... | 36.9         | 68       | -1      | 4.73           | 6.33      | 3.40   | 12           | 9              | 10      | 9                      |
| 1913..... | 37.7         | 63       | -11     | 3.03           | 4.59      | 1.47   | 13           | 9              | 9       | 7                      |
| 1914..... | 31.1         | 66       | -12     | 5.33           | 9.12      | 2.99   | 10           | 6              | 15      | 12                     |
| 1915..... | 31.9         | 64       | 3       | 4.82           | 7.83      | 2.19   | 12           | 9              | 10      | 8                      |
| 1916..... | 32.3         | 70       | -8      | 4.61           | 6.84      | 3.35   | 13           | 8              | 10      | 11                     |
| 1917..... | 24.8         | 54       | -29     | 3.18           | 5.46      | 1.55   | 13           | 7              | 11      | 8                      |
| 1918..... | 37.5         | 66       | 6       | 3.92           | 4.94      | 3.21   | 12           | 7              | 12      | 10                     |
| 1919..... | 28.8         | 67       | -18     | 2.98           | 5.14      | 1.84   | 10           | 8              | 13      | 12                     |
| 1920..... | 36.4         | 69       | -1      | 5.10           | 6.63      | 2.86   | 11           | 8              | 12      | 8                      |



## Climatological Data for December, 1920.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |                 |       |                       | Precipitation, in inches. |                            |                       |                            | No. of days.                   |        |             |         | Prevailing direction of wind. | Observers.                |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|-----------------|-------|-----------------------|---------------------------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|---------|-------------------------------|---------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest.         | Date. | Greatest daily range. | Total.                    | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. | Pt. cloudy. | Cloudy. |                               |                           |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |          |       |                 |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Belvidere†                                  | Warren     | 289              | 29                       | 34.0                          | +3.2                       | 65       | 14    | 12              | 29    | 26                    | 4.57                      | +0.43                      | 1.47                  | 2.0                        | 7                              | 11     | 8           | 12      | .....                         | Samuel J. Hixson.         |
| Charlotteburg                               | Passaic    | 719              | 28                       | 32.6                          | +2.0                       | 56       | 14    | 8               | 26    | 26                    | 6.49                      | +2.10                      | 2.20                  | .....                      | 7                              | 11     | 15          | 5       | nw.                           | George S. Briggs.         |
| Culvers Lake†                               | Sussex     | 848              | 19                       | .....                         | .....                      | .....    | ..... | -1              | 29    | 29                    | 4.51                      | +0.98                      | 1.33                  | 5.7                        | 9                              | 10     | 7           | 14      | w.                            | Brice E. Riker.           |
| Dover                                       | Morris     | 600              | 36                       | 32.6                          | +2.5                       | 60       | 14    | 12              | 26    | 23                    | 5.90                      | +1.78                      | 1.88                  | 1.8                        | 7                              | 4      | 15          | 12      | .....                         | William C. Harris.        |
| Layton                                      | Sussex     | 480              | 20                       | 31.8                          | +4.4                       | 64       | 14    | 8               | 29    | 28                    | 4.73                      | +0.56                      | 1.32                  | 3.4                        | 10                             | 4      | 8           | 19      | w.                            | A. M. Depue.              |
| Newton                                      | Sussex     | 769              | 39                       | 32.3                          | +3.0                       | 61       | 14    | 10              | 26†   | 23                    | 4.57                      | +0.87                      | 1.40                  | 2.8                        | 7                              | 8      | 4           | 19      | nw.                           | Irving G. Kern.           |
| Phillipsburg                                | Warren     | 363              | 38                       | 34.2                          | +2.9                       | 64       | 14    | 15              | 26†   | 24                    | 5.05                      | +1.37                      | 1.85                  | 1.6                        | 8                              | 12     | 6           | 13      | w.                            | D. Wilson Smith.          |
| Sussex                                      | Sussex     | 442              | 29                       | 33.7 <sup>a</sup>             | +3.9                       | 64       | 14    | 11*             | 26    | 25                    | 4.07                      | +0.33                      | 1.30                  | 1.8                        | 8                              | .....  | .....       | .....   | sw.                           | Rev. W. August George.    |
| Means and extremes                          |            |                  |                          | 33.0                          | +3.1                       | 65       | 14    | -1              | 29    | 28                    | 4.99                      | +1.05                      | 2.20                  | 2.7                        | 8                              | 9      | 9           | 13      | w.                            |                           |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |          |       |                 |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Bergen Point†                               | Hudson     | 37               | 23                       | 37.0 <sup>b</sup>             | +4.0                       | 63       | 14    | 16              | 26    | 23                    | 6.22                      | +2.23                      | 2.05                  | 1.0                        | 6                              | .....  | .....       | .....   | nw.                           | William H. Mitchell.      |
| Boonton                                     | Morris     | 400              | 30                       | 34.6                          | .....                      | 64       | 14    | 12              | 26    | 31                    | 6.17                      | +2.07                      | 1.15                  | 1.5                        | 12                             | 20     | 5           | 6       | nw.                           | J. W. Demmers.            |
| Chatham                                     | Morris     | 330              | 18                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                 | 4.81                      | +1.00                      | 0.98                  | T.                         | 9                              | 11     | 11          | 9       | .....                         | Paul Molitor, Sr.         |
| Elizabeth                                   | Union      | 45               | 41                       | 36.8                          | +3.3                       | 64       | 14    | 15              | 29    | 25                    | 5.39                      | +1.60                      | 1.32                  | 1.0                        | 9                              | 9      | 14          | 8       | w.                            | L. B. Bonnett.            |
| Flemington                                  | Hunterdon  | 140              | 31                       | 36.4                          | +4.4                       | 64       | 14    | 16              | 29    | 23                    | 4.80                      | +1.12                      | 1.53                  | 1.0                        | 7                              | 15     | 5           | 11      | w.                            | Hiram E. Deats.           |
| Highwood                                    | Bergen     | 90               | 32                       | 34.8                          | +2.4                       | 59       | 14    | 13              | 26    | 23                    | 5.74                      | +1.58                      | 1.49                  | 2.5                        | 10                             | 10     | 8           | 13      | nw.                           | Charles J. Bates.         |
| Jersey City                                 | Hudson     | 10               | 21                       | 38.2                          | +4.2                       | 59       | 14    | 18              | 26    | 16                    | 5.27                      | +1.71                      | 1.50                  | 1.5                        | 8                              | 8      | 12          | 11      | nw.                           | S. K. Pearson, Jr.        |
| Kearny                                      | Hudson     | .....            | .....                    | 37.6                          | .....                      | 65       | 14    | 15              | 26    | 21                    | 5.58                      | .....                      | 1.48                  | 1.0                        | 7                              | 0      | 16          | 15      | w.                            | Wm. J. Chandler, M. D.    |
| Lambertville                                | Hunterdon  | 80               | 33                       | 35.7 <sup>a</sup>             | +2.4                       | 63       | 14    | 14              | 29    | 23                    | 5.46                      | +1.68                      | 1.56                  | T.                         | 7                              | .....  | .....       | .....   | w.                            | Thomas R. Hunt.           |
| Little Falls                                | Passaic    | 180              | 17                       | 37.7†                         | .....                      | 61       | 14    | 15 <sup>d</sup> | 26    | 25                    | 6.63                      | +2.79                      | 1.32                  | 2.0                        | 12                             | 17     | 7           | 7       | nw.                           | Montclair Water Co.       |
| Newark                                      | Essex      | 159              | 78                       | 36.7                          | +3.7                       | 62       | 14    | 16              | 26    | 18                    | 5.72                      | +1.92                      | 1.46                  | 2.0                        | 11                             | 14     | 8           | 9       | nw.                           | Prof. William Wiener.     |
| New Brunswick                               | Middlesex  | 110              | 67                       | 36.4                          | +3.3                       | 65       | 14    | 16              | 26†   | 30                    | 5.02                      | +1.27                      | 1.54                  | T.                         | 7                              | 17     | 7           | 7       | w.                            | N. J. Experiment Station. |
| New Milford†                                | Bergen     | .....            | 1                        | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                 | 5.20                      | .....                      | 1.24                  | .....                      | 9                              | .....  | .....       | .....   | .....                         | Hackensack Water Co.      |
| Paterson                                    | Passaic    | 80               | 49                       | 36.7                          | +3.6                       | 59       | 14    | 14              | 26    | 20                    | 5.41                      | +1.30                      | 1.38                  | 2.0                        | 9                              | 2      | 1           | 28      | nw.                           | Marion T. Probert.        |
| Plainfield                                  | Somerset   | 100              | 33                       | 34.7                          | +2.8                       | 65       | 14    | 13              | 26    | 26                    | 5.40                      | +1.51                      | 1.66                  | 1.2                        | 8                              | 9      | 14          | 8       | nw.                           | E. D. Pearson.            |
| Ridgefield†                                 | Bergen     | 70               | 5                        | 34.4                          | .....                      | 60       | 14    | 13              | 26    | 19                    | 5.04                      | .....                      | 1.44                  | 2.0                        | 12                             | 10     | 12          | 9       | nw.                           | George P. Kirsten.        |
| Somerville                                  | Somerset   | 60               | 38                       | 36.8*                         | +4.9                       | 65       | 14    | 16              | 29    | 32                    | 5.72                      | +2.15                      | 1.75                  | 2.0                        | 9                              | 10     | 5           | 16      | nw.                           | Peter V. D. Hardcastle.   |
| South Orange                                | Essex      | 200              | 50                       | 35.7 <sup>a</sup>             | +3.7                       | .....    | ..... | .....           | ..... | .....                 | 5.56                      | +1.73                      | 1.35                  | 1.4                        | 7                              | 12     | 9           | 10      | w.                            | Wm. H. Needer.            |
| Woodcliff Lake†                             | Bergen     | .....            | 1                        | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                 | 4.17                      | .....                      | 1.26                  | .....                      | 5                              | .....  | .....       | .....   | nw.                           | Hackensack Water Co.      |
| New York, N. Y.                             |            | 365              | 50                       | 37.8                          | +3.4                       | 59       | 14    | 18              | 26    | 16                    | 5.09                      | +1.64                      | 1.25                  | 1.5                        | 11                             | 6      | 12          | 13      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 36.3                          | +3.6                       | 65       | 14    | 12              | 26    | 32                    | 5.44                      | +1.71                      | 1.75                  | 1.3                        | 9                              | 11     | 9           | 11      | nw.                           |                           |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |          |       |                 |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Bridgeton                                   | Cumberland | 30               | 39                       | 39.4                          | +3.8                       | 65       | 14    | 18              | 29    | 26                    | 4.14                      | +0.27                      | 1.60                  | T.                         | 5                              | 15     | 7           | 9       | w.                            | Henry A. Jorden.          |
| Burlington                                  | Burlington | 12               | 34                       | 37.2                          | +3.1                       | 66       | 14    | 17              | 29    | 29                    | 5.80                      | +1.39                      | 1.70                  | 0.5                        | 9                              | 20     | 2           | 9       | nw.                           | D. S. B. McCoy.           |
| Camp Dix                                    | Burlington | .....            | 2                        | 37.4                          | .....                      | 67       | 14    | 14              | 26    | 24                    | 2.86                      | .....                      | 0.73                  | 0.2                        | 10                             | 1      | 3           | 27      | nw.                           | U. S. Army.               |
| Clayton                                     | Gloucester | 126              | 28                       | 38.0 <sup>b</sup>             | +4.0                       | 69       | 14    | 18              | 21†   | 32                    | 4.25                      | +0.56                      | 1.23                  | T.                         | 8                              | 8      | 4           | 19      | nw.                           | Marvin E. Porch.          |
| Hammonton                                   | Atlantic   | 103              | 18                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                 | 4.59                      | +0.49                      | 1.19                  | T.                         | 10                             | 20     | 7           | 4       | w.                            | G. H. Parkhurst.          |
| Hightstown                                  | Mercer     | 120              | 27                       | 36.6*                         | +3.0                       | 66       | 14    | 15              | 29    | 24                    | 5.14                      | +1.43                      | 1.40                  | .....                      | 7                              | 17     | 3           | 11      | nw.                           | E. H. Savage, Jr.         |
| Imlaystown                                  | Monmouth   | 185              | 31                       | 36.6                          | +2.0                       | 64       | 14    | 14              | 21    | 24                    | 4.47                      | +0.90                      | 1.35                  | .....                      | 13                             | 14     | 9           | 8       | w.                            | Wm. R. Hendrickson.       |
| Indian Mills†                               | Burlington | 76               | 31                       | 36.8                          | +2.8                       | 67       | 14    | 11              | 21†   | 32                    | 5.15                      | +1.06                      | 1.45                  | T.                         | 10                             | 8      | 10          | 13      | nw.                           | James M. Armstrong.       |
| Lakewood                                    | Ocean      | 54               | 17                       | 37.1                          | +3.3                       | 62       | 14    | 14              | 21    | 25                    | 6.07                      | +2.35                      | 1.46                  | T.                         | 9                              | 11     | 3           | 17      | w.                            | R. W. Holman.             |
| Moorestown                                  | Burlington | 75               | 58                       | 39.0†                         | +5.7                       | 68       | 14    | 18              | 26    | 24                    | 5.16                      | +1.58                      | 2.05                  | T.                         | 8                              | .....  | .....       | .....   | nw.                           | Stokes Seed Farms Co.     |
| Northfield                                  | Atlantic   | 25               | 13                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                 | 4.65                      | +0.85                      | 1.34                  | 0.1                        | 6                              | .....  | .....       | .....   | .....                         | William L. Flick.         |
| Pleasantville†                              | Atlantic   | 26               | 22                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                 | 4.58                      | +0.91                      | 1.19                  | .....                      | 10                             | 17     | 5           | 9       | .....                         | Lincoln Van Gilder.       |
| Trenton                                     | Mercer     | 190              | 49                       | 37.4                          | +3.0                       | 66       | 14    | 17              | 29    | 23                    | 4.25                      | +1.09                      | 1.54                  | 1.0                        | 10                             | 8      | 9           | 14      | w.                            | U. S. Weather Bureau.     |
| Tuckerton                                   | Ocean      | 23               | 27                       | 37.6                          | +3.1                       | 60       | 1     | 12              | 25    | 28                    | 5.20                      | +0.92                      | 1.38                  | T.                         | 8                              | 5      | 18          | 8       | nw.                           | Frank R. Austin.          |
| Vineland                                    | Cumberland | 109              | 52                       | 39.4                          | +5.0                       | 66       | 14    | 18              | 29    | 26                    | 5.46                      | +1.62                      | 1.33                  | 0.3                        | 8                              | 9      | 15          | 7       | nw.                           | H. C. Himes.              |
| Woodbine                                    | Cape May   | 43               | 29                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                 | 4.66                      | +1.62                      | 1.48                  | 0.8                        | 8                              | 7      | 7           | 17      | nw.                           | W. I. Zechman.            |
| Philadelphia, Pa.                           |            | 117              | 50                       | 39.8                          | +4.1                       | 67       | 14    | 20              | 26    | 25                    | 4.75                      | +1.10                      | 2.05                  | 0.2                        | 9                              | 12     | 7           | 12      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 37.7                          | +3.5                       | 69       | 14    | 11              | 21†   | 32                    | 4.75                      | +1.10                      | 2.05                  | 0.2                        | 9                              | 12     | 7           | 12      | nw.                           |                           |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |          |       |                 |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Asbury Park                                 | Monmouth   | 22               | 31                       | 39.4                          | +4.9                       | 60       | 23    | 19              | 26    | 22                    | 5.78                      | +2.14                      | 1.40                  | T.                         | 9                              | 17     | 6           | 8       | w.                            | Information Bureau.       |
| Atlantic City                               | Atlantic   | 16               | 47                       | 39.6                          | +3.2                       | 58       | 14    | 19              | 29    | 22                    | 4.27                      | +0.53                      | 1.23                  | 0.1                        | 8                              | 10     | 4           | 17      | w.                            | U. S. Weather Bureau.     |
| Cape May City                               | Cape May   | 17               | 36                       | 40.0                          | +2.0                       | 56       | 1     | 21              | 26    | 22                    | 4.07                      | +0.29                      | 1.25                  | T.                         | 8                              | 9      | 4           | 18      | nw.                           | U. S. Weather Bureau.     |
| Long Branch                                 | Monmouth   | 25               | 13                       | 36.0                          | +2.0                       | 56       | 23    | 16              | 29    | 20                    | 6.18                      | +2.48                      | 1.76                  | T.                         | 7                              | 7      | 11          | 13      | nw.                           | William D. Martin, Jr.    |
| Sandy Hook                                  | Monmouth   | 22               | 22                       | 37.8                          | +3.2                       | 57       | 14    | 20              | 26    | 15                    | 5.16                      | +1.31                      | 1.34                  | 0.5                        | 9                              | 6      | 12          | 13      | sw.                           | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 38.6                          | +3.1                       | 60       | 23    | 16              | 29    | 22                    | 5.09                      | +1.35                      | 1.76                  | 0.1                        | 8                              | 10     | 7           | 14      | w.                            |                           |
| For the State                               |            |                  |                          | 36.4                          | +3.4                       | 69       | 14    | -1              | 29    | 32                    | 5.10                      | +1.34                      | 2.20                  | 1.0                        | 8                              | 11     | 8           | 12      | nw.                           |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, \*, †, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



| Daily Precipitation for December, 1920.    |                 |               |     |     |      |     |   |   |   |   |     |     |     |    |        |      |     |     |     |     |     |    |      |      |      |     |     |      |      |    |    |    |        |
|--------------------------------------------|-----------------|---------------|-----|-----|------|-----|---|---|---|---|-----|-----|-----|----|--------|------|-----|-----|-----|-----|-----|----|------|------|------|-----|-----|------|------|----|----|----|--------|
| Stations.                                  | Watershed.      | Day of month. |     |     |      |     |   |   |   |   |     |     |     |    |        |      |     |     |     |     |     |    |      |      |      |     |     |      |      |    |    |    | Total. |
|                                            |                 | 1             | 2   | 3   | 4    | 5   | 6 | 7 | 8 | 9 | 10  | 11  | 12  | 13 | 14     | 15   | 16  | 17  | 18  | 19  | 20  | 21 | 22   | 23   | 24   | 25  | 26  | 27   | 28   | 29 | 30 | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |      |     |   |   |   |   |     |     |     |    |        |      |     |     |     |     |     |    |      |      |      |     |     |      |      |    |    |    |        |
| Belvidere.....                             | Delaware.....   | 1.47          | .28 |     | .52  |     |   |   |   |   | .15 |     |     |    | .93    |      |     |     |     |     |     |    |      |      | .82  |     |     | .40  |      |    |    |    | 4.57   |
| Charlotteburg.....                         | Passaic.....    | 1.44          |     |     | 1.10 |     |   |   |   |   | .14 |     |     |    | 2.20   |      | T   |     |     |     |     |    | *    | .74  |      |     |     | .87  |      |    |    |    | 6.49   |
| Culvers Lake.....                          | Delaware.....   | 1.33          | .12 |     | .52  |     |   |   |   |   | .10 | T   |     |    | 1.05   | .02  | T   |     | .03 |     | T   |    |      |      | .69  |     |     | .65  | T    |    |    |    | 4.51   |
| Dover.....                                 | Passaic.....    | 1.70          |     |     | 1.13 |     |   |   |   |   | .18 |     |     |    | * 1.88 |      |     |     |     |     |     |    | T    | .17  |      |     |     | .84  |      |    |    |    | 5.90   |
| Layton.....                                | Delaware.....   | 1.32          | .28 |     | .53  |     |   |   |   |   | .13 | T   |     |    | .02    | 1.20 | .02 |     |     |     |     |    |      | .03  | .60  |     |     | .60  |      |    |    |    | 47.3   |
| Newton.....                                | Delaware.....   | 1.40          | T   |     | .54  |     |   |   |   |   | .13 |     |     |    | T 1.07 | .07  | T   |     |     |     |     |    |      | T    | .76  |     |     | .56  |      |    |    |    | 4.57   |
| Phillipsburg.....                          | do.....         | 1.85          |     |     | .52  |     |   |   |   |   | .06 |     |     |    | T 1.05 | T    | T   |     |     |     | .04 |    |      |      | .75  | .12 |     | .03  | .67  |    |    |    | 5.05   |
| Sussex.....                                | Hudson.....     | 1.30          | .22 |     | .60  |     |   |   |   |   | .13 | .06 |     |    | .92    | T    |     |     |     |     | T   |    |      |      | .58  |     |     | .26  |      |    |    |    | 4.07   |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |      |     |   |   |   |   |     |     |     |    |        |      |     |     |     |     |     |    |      |      |      |     |     |      |      |    |    |    |        |
| Bergen Point.....                          | Coast.....      | 1.54          |     |     | .82  |     |   |   |   |   | T   | .15 | T   |    | 1.45   | T    | T   |     |     |     |     |    | .21  |      |      |     |     | 2.05 | T    |    |    |    | 6.22   |
| Boonton.....                               | Passaic.....    | .83           | .74 |     | 1.05 | .01 |   |   |   |   | T   | .07 | .07 |    | 1.15   | .49  | .02 | T   | T   |     |     |    |      | .90  |      |     |     | .51  | .33  |    |    |    | 6.17   |
| Chatham.....                               | do.....         | .81           |     | .82 | .02  |     |   |   |   |   | T   | .09 |     |    | .98    | .44  | T   | T   | T   |     |     |    |      | .95  |      |     |     | .23  |      |    |    |    | 4.81   |
| Elizabeth.....                             | Coast.....      | 1.32          |     |     | .73  | T   |   |   |   |   | .19 |     |     |    | T 1.19 | .01  | T   | T   | T   |     |     |    | *    | 1.11 |      |     | .47 |      | .84  |    |    |    | 5.39   |
| Flemington.....                            | Raritan.....    | 1.53          |     |     | .95  |     |   |   |   |   | .06 |     |     |    | T 1.97 | T    |     | T   |     |     |     |    |      | .06  | .63  |     |     | .60  |      |    |    |    | 4.80   |
| Highwood.....                              | Hackensack..... | 1.46          | .02 |     | .88  |     |   |   |   |   | .13 | .01 |     |    | T 1.49 | .02  | T   |     |     |     |     |    | .17  | .65  |      |     |     | .91  | T    |    |    |    | 5.74   |
| Jersey City.....                           | Coast.....      | 1.50          | T   |     | .58  | T   |   |   |   |   | .20 |     |     |    | T 1.00 | .01  |     | T   |     |     |     |    |      | .05  | 1.03 |     |     | T    | .90  |    |    |    | 5.27   |
| Kearny.....                                | Coast.....      | 1.48          |     |     | .54  |     |   |   |   |   | T   | .12 |     |    | 1.24   | T    | T   | T   |     |     |     |    | *    | 1.15 |      |     |     | 1.05 |      |    |    |    | 5.58   |
| Lambertville.....                          | Delaware.....   | 1.56          |     |     | .82  |     |   |   |   |   | T   |     |     |    | 1.20   |      | T   | T   |     |     |     |    | *    | 1.13 |      |     |     | *    | .75  |    |    |    | 5.46   |
| Little Falls.....                          | Passaic.....    | 1.00          | .59 |     | .85  | .05 |   |   |   |   | .07 | .08 |     |    | 1.32   | .80  | .01 | T   |     |     |     |    |      | .95  |      |     |     | .61  | .30  |    |    |    | 6.63   |
| Newark**.....                              | Coast.....      | 1.46          |     |     | .78  |     |   |   |   |   | .04 | .16 |     |    | .12    | 1.35 | .23 | T   |     |     |     |    | .48  | .72  |      |     | .05 | .33  |      |    |    |    | 5.72   |
| New Brunswick.....                         | Raritan.....    | 1.54          |     |     | .80  |     |   |   |   |   | .10 |     |     |    | .05    | .95  |     | T   |     |     |     |    | T    | .84  |      |     |     | .74  |      |    |    |    | 5.02   |
| New Milford.....                           | Hackensack..... | 1.21          | .02 |     | .84  |     |   |   |   |   | .10 |     |     |    | 1.24   |      |     |     |     |     |     |    | .60  | .22  |      |     |     | .77  | .20  |    |    |    | 5.20   |
| Paterson.....                              | Passaic.....    | 1.28          | .02 |     | .85  |     |   |   |   |   | .13 |     |     |    | T 1.38 | T    | .02 |     |     |     |     |    | .03  | .80  |      |     |     | .90  |      |    |    |    | 5.41   |
| Plainfield.....                            | Raritan.....    | 1.66          |     |     | .68  | T   |   |   |   |   | .17 |     |     |    | .08    | 1.14 | T   | T   |     |     |     |    | .21  | .64  |      |     |     | .82  |      |    |    |    | 5.40   |
| Ridgefield**.....                          | Hackensack..... | 1.44          |     |     | .78  |     |   |   |   | * | .15 |     |     |    | * 1.22 | .02  | .01 |     |     |     |     |    | *    | .62  |      |     | *   | .80  |      |    |    |    | 5.04   |
| Somerville.....                            | Raritan.....    | * 1.75        |     |     | 1.14 |     |   |   |   |   | .13 |     |     |    | .05    | 1.20 | T   |     |     |     |     |    | .05  | .65  |      |     |     | .75  |      |    |    |    | 5.72   |
| South Orange.....                          | Rahway.....     | 1.27          |     |     | .88  | T   |   |   |   |   | .16 |     |     |    | 1.35   | T    | T   | T   |     |     |     |    | .45  | .38  |      |     |     | 1    | 1.07 |    |    |    | 5.56   |
| Woodcliff Lake.....                        | Hackensack..... | 1.00          |     |     | .80  |     |   |   |   |   | .10 |     |     |    | 1.26   |      |     |     |     |     |     |    | .49  |      |      |     |     | .62  |      |    |    |    | 4.17   |
| New York, N. Y.***                         | Coast.....      | 1.25          | .01 |     | 1.01 | T   |   |   |   |   | .04 | .15 |     |    | T      | .83  | .02 | T   | T   |     |     |    | .77  | .27  |      |     | .08 | .66  |      |    |    |    | 5.09   |
| <i>The Southern Interior.</i>              |                 |               |     |     |      |     |   |   |   |   |     |     |     |    |        |      |     |     |     |     |     |    |      |      |      |     |     |      |      |    |    |    |        |
| Bridgeton.....                             | Coast.....      | 1.60          |     |     | .52  |     |   |   |   |   | T   |     |     |    | .85    |      | T   |     |     |     |     |    | .40  |      |      |     |     | .77  |      |    |    |    | 4.14   |
| Burlington.....                            | Delaware.....   | 1.70          |     |     | .65  |     |   |   |   |   | *   | .08 |     |    | .02    | 1.10 |     |     |     |     |     |    | .10  | .95  |      |     |     | .70  |      |    |    |    | 5.30   |
| Camp Dix.....                              | Delaware.....   | .12           |     |     | .71  |     |   |   |   |   | .01 | .11 | .04 |    | .44    | .09  | T   |     |     |     |     |    | .73  |      |      |     | .18 |      |      |    |    |    | 2.86   |
| Clayton.....                               | Maurice.....    | 1.23          |     |     | .55  |     |   |   |   |   | T   | .02 |     |    | .05    | .82  |     | T   |     |     |     |    | .44  | .32  |      |     | .43 | .82  |      |    |    |    | 4.25   |
| Hammonton.....                             | Mullica.....    | .87           |     |     | 1.19 |     |   |   |   |   | .03 | *   | .02 |    | .01    | 1.05 | T   |     |     |     |     |    | .20  | .50  |      |     |     | .72  | T    |    |    |    | 4.59   |
| Hightstown.....                            | Raritan.....    | 1.40          |     |     | .85  |     |   |   |   |   | .12 |     |     |    | T 1.15 |      |     |     |     |     |     |    | .05  | .90  |      |     |     | .67  |      |    |    |    | 5.14   |
| Imlaytown.....                             | Delaware.....   | 1.35          | .01 |     | .85  | .01 | T |   |   |   | .09 |     | .01 |    | .01    | 1.10 | T   |     |     |     |     |    | .04  | .93  |      |     |     | .03  | .03  |    |    |    | 4.47   |
| Indian Mills.....                          | Mullica.....    | 1.45          |     |     | .90  |     |   |   |   |   | .02 | .03 |     |    | .02    | 1.15 |     |     |     |     |     |    | .08  | .68  |      |     |     | .74  | .08  |    |    |    | 5.15   |
| Lakewood.....                              | Metedeconk..... | 1.21          | .02 |     | 1.46 |     |   |   |   |   | .02 | .22 |     |    | T 1.10 |      |     |     |     |     |     |    | .14  | 1.14 |      |     |     | .76  |      |    |    |    | 6.07   |
| Moorestown.....                            | Delaware.....   | 2.05          |     |     | .70  |     |   |   |   |   | .03 |     |     |    | .02    | .90  |     |     |     |     |     |    | .05  | .67  |      |     |     | .74  |      |    |    |    | 5.16   |
| Northfield.....                            | Coast.....      | 1.34          |     |     | .99  |     |   |   |   |   | T   | T   |     |    | 1.15   |      |     | T   |     |     |     |    | .12  | .64  |      |     |     | .41  |      |    |    |    | 4.65   |
| Pleasantville.....                         | Coast.....      | 1.19          |     |     | 1.03 |     |   |   |   |   | .02 | .01 |     |    | .01    | 1.08 |     | .01 |     |     |     |    | .29  | .52  |      |     | T   | .42  |      |    |    |    | 4.58   |
| Trenton***.....                            | Delaware.....   | 1.51          | T   |     | .55  |     |   |   |   |   | .01 | .08 |     |    | .01    | .84  | T   | T   | T   |     |     |    | .61  | .09  |      |     | .10 | .45  | T    |    |    |    | 4.25   |
| Tuckerton.....                             | Coast.....      | 1.38          |     |     | 1.11 |     |   |   |   |   | .06 | .04 |     |    | T 1.37 | T    |     | T   |     |     |     |    | .13  | .71  |      |     |     | .40  |      |    |    |    | 5.20   |
| Vineland.....                              | Maurice.....    | 1.83          |     | .04 | 1.25 |     |   |   |   |   |     |     |     |    | 1.10   |      |     |     |     | .03 |     |    | .47  | .11  |      |     |     | .63  |      |    |    |    | 5.46   |
| Woodbine.....                              | Coast.....      |               |     |     |      |     |   |   |   |   |     |     |     |    |        |      |     |     |     |     |     |    |      |      |      |     |     |      |      |    |    |    |        |
| Philadelphia, Pa..                         | Delaware.....   | 1.38          |     |     | .70  |     |   |   |   |   | T   | .01 |     |    | .02    | .86  | T   |     |     |     |     |    | 1.11 |      |      |     | .09 | .49  |      |    |    |    | 4.66   |
| <i>The Sea Coast.</i>                      |                 |               |     |     |      |     |   |   |   |   |     |     |     |    |        |      |     |     |     |     |     |    |      |      |      |     |     |      |      |    |    |    |        |
| Asbury Park.....                           | Coast.....      | .87           | .01 |     | 1.40 |     |   |   |   |   | .13 | .08 |     |    | 1.33   |      |     |     |     |     |     |    | *    | 1.28 |      |     |     | .68  |      |    |    |    | 5.78   |
| Atlantic City***.....                      | do.....         | .83           |     |     | .84  |     |   |   |   |   | T   | .04 | T   |    | T 1.23 | T    | .01 | T   |     |     |     |    | .86  |      |      |     | .11 | .35  |      |    |    |    | 4.27   |
| Cape May City.....                         | do.....         | 1.25          |     |     | .60  |     |   |   |   |   | .10 | .01 |     |    | T 1.12 |      | T   | T   |     |     |     |    | .10  | .40  |      |     | T   | .49  |      |    |    |    | 4.07   |
| Long Branch**.....                         | do.....         | .90           |     |     | 1.76 |     |   |   |   |   | T   | .13 |     |    | 1.10   |      |     |     |     |     |     |    | 1.76 | .40  |      |     |     | .13  |      |    |    |    | 6.18   |
| Sandy Hook***.....                         | do.....         | 1.03          | T   |     | 1.32 |     |   |   |   |   | .02 | .09 |     |    | T      | .69  | T   | T   |     |     |     |    | .88  | .46  |      |     | .04 | .63  |      |    |    |    | 5.16   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
! † Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
\* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

| MISCELLANEOUS DATA.   |               |          |       |         |       |                  |                 |            |       |                                            |                                            |                |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|----------------|
| Stations.             | Pressure.     |          |       |         |       | Hourly velocity. | Wind.           |            |       | Moisture.                                  |                                            | Sun-<br>shine. |
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. |                  | Miles per hour. | Highest.   |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. |                |
|                       |               |          |       |         |       |                  |                 | Direction. | Date. |                                            |                                            |                |
| Atlantic City.....    | 30.01         | 30.56    | 21    | 29.42   | 14    | 9                | 30              | s.         | 14    | 82                                         | 76                                         | 41             |
| Cape May City.....    | 30.05         | 30.60    | 21    | 29.60   | 5     | 11               | 40              | se.        | 14    | 81                                         | 72                                         | .....          |
| Long Branch.....      |               |          |       |         |       |                  | 63              | nw.        | 5     |                                            |                                            | .....          |
| Newark.....           |               |          |       |         |       |                  |                 |            |       |                                            |                                            |                |
| New York, N. Y.....   |               |          |       |         |       |                  |                 |            |       | 70*                                        | 64†                                        | 67             |
| Philadelphia, Pa..... | 29.97         | 30.56    | 26    | 29.36   | 14    | 21               | 75              | nw.        | 2     | 71                                         | 66                                         | 47             |
| Edgefield.....        | 30.00         | 30.55    | 21    | 29.36   | 14    | 11               | 38              | s.         | 14    | 81                                         | 80                                         | 50             |
| Andy Hook.....        | 29.97         | 30.57    | 27    | 29.35   | 14    |                  |                 |            |       |                                            |                                            |                |
| .....                 | 29.97         | 30.56    | 26    | 29.35   | 14    | 29               | 54              | se.        | 14    | 82                                         | 78                                         | 51             |
| .....                 | 29.98         | 30.55    | 21    | 29.36   | 14    | 12               | 46              | w.         | 5     | 78                                         | 69                                         | 46             |



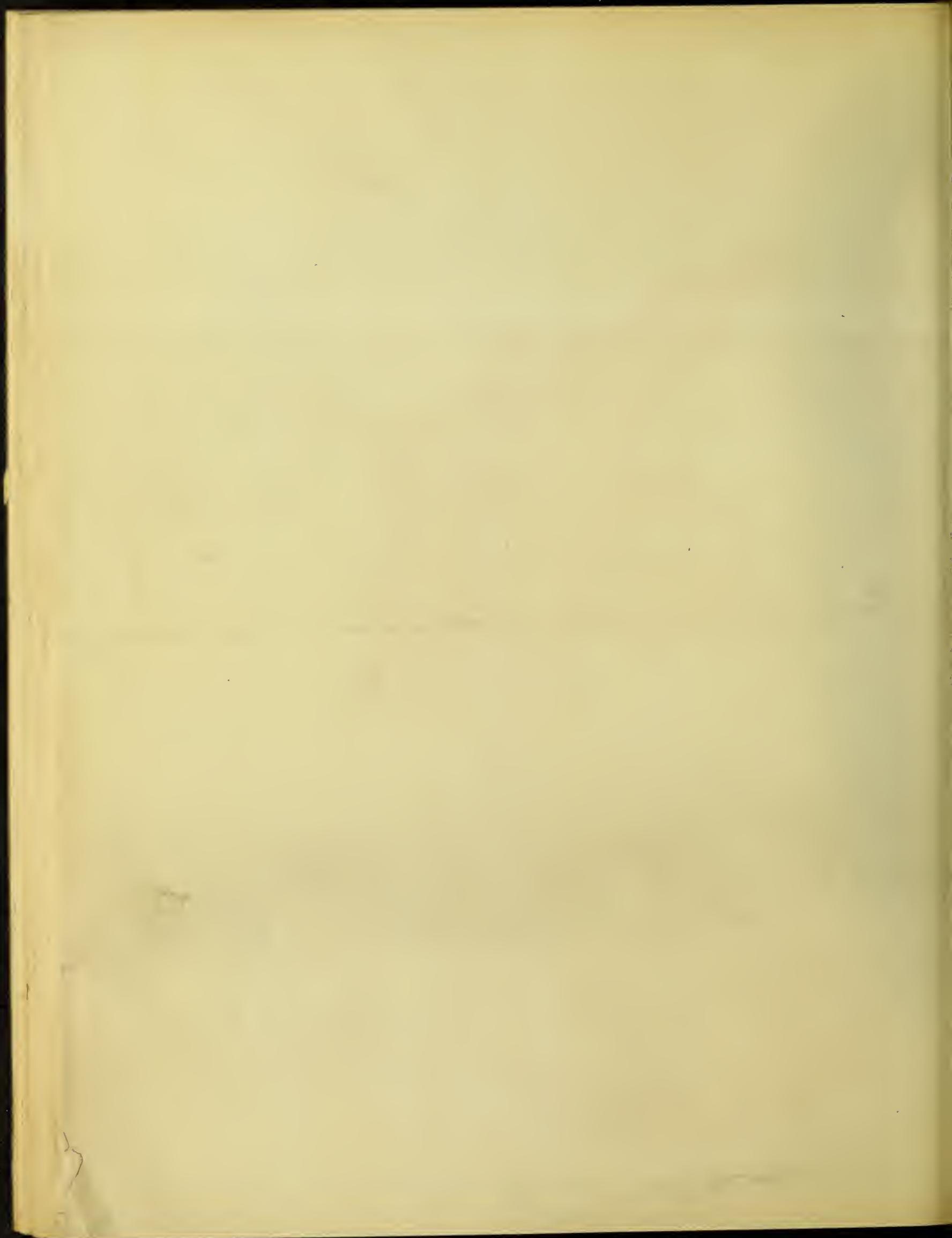
## Daily Temperatures for December, 1920.

| Stations.                           | 1       | 2  | 3  | 4     | 5  | 6  | 7     | 8  | 9  | 10 | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23 | 24    | 25    | 26    | 27 | 28 | 29    | 30    | 31    | Mean. |      |
|-------------------------------------|---------|----|----|-------|----|----|-------|----|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|-------|-------|-------|----|----|-------|-------|-------|-------|------|
| The Highlands and Kittatinny Valley |         |    |    |       |    |    |       |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |    |       |       |       |    |    |       |       |       |       |      |
| Belvidere.....                      | Maximum | 44 | 51 | 45    | 50 | 48 | 44    | 44 | 42 | 38 | 37    | 41    | 47    | 42    | 65    | 46    | 37    | 37    | 35    | 34    | 35    | 40    | 36 | 48    | 37    | 32    | 27 | 33 | 36    | 29    | 44    | 45    | 40.9 |
|                                     | Minimum | 37 | 38 | 32    | 43 | 39 | 40    | 25 | 24 | 31 | 31    | 22    | 23    | 39    | 29    | 27    | 22    | 23    | 18    | 16    | 15    | 28    | 28 | 31    | 21    | 14    | 25 | 29 | 12    | 24    | 28    | 27.1  |      |
| Charlotteburg.....                  | Maximum | 43 | 45 | 41    | 52 | 48 | 42    | 40 | 38 | 35 | 35    | 37    | 45    | 42    | 56    | 47    | 40    | 42    | 36    | 36    | 35    | 35    | 47 | 43    | 38    | 34    | 33 | 32 | 30    | 41    | 38    | 40.2  |      |
|                                     | Minimum | 31 | 35 | 28    | 27 | 40 | 39    | 32 | 21 | 21 | 29    | 30    | 23    | 21    | 36    | 30    | 26    | 21    | 31    | 17    | 16    | 11    | 24 | 28    | 29    | 18    | 8  | 19 | 26    | 10    | 18    | 29    | 25.0 |
| Dover.....                          | Maximum | 48 | 39 | 45    | 52 | 50 | 43    | 38 | 39 | 36 | 36    | 39    | 47    | 43    | 60    | 38    | 36    | 38    | 34    | 32    | 33    | 37    | 39 | 49    | 34    | 28    | 22 | 34 | 29    | 43    | 41    | 39.2  |      |
|                                     | Minimum | 38 | 31 | 28    | 30 | 42 | 37    | 29 | 24 | 27 | 32    | 32    | 24    | 26    | 38    | 31    | 26    | 22    | 24    | 19    | 17    | 15    | 28 | 35    | 24    | 18    | 12 | 21 | 17    | 13    | 25    | 23    | 26.1 |
| Layton.....                         | Maximum | 42 | 49 | 49    | 50 | 53 | 46    | 42 | 42 | 40 | 37    | 38    | 42    | 40    | 64    | 45    | 35    | 37    | 36    | 30    | 29    | 37    | 33 | 50    | 40    | 29    | 22 | 32 | 35    | 27    | 42    | 40    | 39.8 |
|                                     | Minimum | 35 | 35 | 24    | 29 | 42 | 38    | 30 | 23 | 20 | 30    | 31    | 20    | 24    | 36    | 24    | 26    | 21    | 21    | 14    | 10    | 12    | 26 | 30    | 29    | 11    | 9  | 14 | 25    | 8     | 19    | 23    | 23.8 |
| Newton.....                         | Maximum | 43 | 48 | 42    | 50 | 51 | 43    | 40 | 37 | 34 | 34    | 39    | 43    | 41    | 61    | 45    | 34    | 35    | 33    | 31    | 31    | 36    | 35 | 48    | 38    | 35    | 30 | 31 | 35    | 26    | 41    | 40    | 39.0 |
|                                     | Minimum | 34 | 36 | 28    | 33 | 38 | 38    | 28 | 23 | 21 | 30    | 30    | 28    | 30    | 38    | 28    | 26    | 21    | 24    | 18    | 17    | 18    | 27 | 30    | 23    | 18    | 10 | 17 | 22    | 10    | 22    | 28    | 25.6 |
| Phillipsburg.....                   | Maximum | 49 | 51 | 46    | 50 | 51 | 44    | 42 | 39 | 36 | 35    | 42    | 44    | 47    | 64    | 43    | 37    | 37    | 34    | 34    | 33    | 37    | 43 | 47    | 36    | 30    | 26 | 35 | 35    | 31    | 43    | 40    | 40.7 |
|                                     | Minimum | 39 | 35 | 30    | 34 | 43 | 41    | 29 | 25 | 24 | 31    | 30    | 25    | 31    | 40    | 33    | 29    | 25    | 20    | 19    | 17    | 30    | 35 | 26    | 19    | 15    | 23 | 18 | 15    | 25    | 27    | 27.7  |      |
| Sussex.....                         | Maximum | 43 | 48 | 43    | 50 | 52 | 46    | 40 | 40 | 37 | 37    | 48    | 48    | 40    | 64    | 49    | 39    | 38    | 36    | 32    | 33    | 37    | 32 | 50    | 40    | 36    | 35 | 32 | ..... | ..... | ..... | ..... | 41.7 |
|                                     | Minimum | 35 | 37 | 25    | 32 | 40 | 37    | 33 | 23 | 27 | 31    | ..... | 23    | 24    | 38    | 30    | 25    | 22    | 24    | 12    | 13    | 14    | 26 | 30    | 32    | 13    | 11 | 12 | ..... | ..... | ..... | ..... | 25.7 |
| The Red Sandstone Plain.            |         |    |    |       |    |    |       |    |    |    |       |       |       |       |       |       |       |       |       |       |       |       |    |       |       |       |    |    |       |       |       |       |      |
| Bergen Point.....                   | Maximum | 54 | 53 | 49    | 54 | 54 | 46    | 47 | 45 | 39 | ..... | 44    | 49    | 49    | 63    | 46    | 44    | 44    | 38    | 38    | 41    | 36    | 41 | 53    | 41    | ..... | 29 | 39 | 36    | 34    | ..... | 45    | 44.7 |
|                                     | Minimum | 41 | 36 | 31    | 34 | 46 | 41    | 34 | 27 | 29 | ..... | 41    | 27    | 34    | 46    | 35    | 29    | 29    | 25    | 22    | 20    | 21    | 28 | 30    | ..... | 26    | 16 | 26 | 25    | 17    | 21    | 26    | 29.4 |
| Boonton§§.....                      | Maximum | 50 | 53 | 46    | 52 | 53 | 48    | 45 | 41 | 39 | 41    | 44    | 51    | 55    | 64    | 45    | 40    | 40    | 38    | 35    | 36    | 39    | 42 | 53    | 39    | 31    | 33 | 39 | 39    | 35    | 45    | 44    | 43.7 |
|                                     | Minimum | 33 | 39 | 26    | 28 | 29 | 42    | 38 | 22 | 24 | 29    | 32    | 24    | 25    | 35    | 30    | 24    | 22    | 25    | 19    | 17    | 14    | 19 | 22    | 34    | 24    | 12 | 13 | 30    | 15    | 16    | 26    | 25.4 |
| Elizabeth.....                      | Maximum | 49 | 53 | 49    | 54 | 56 | 47    | 48 | 39 | 39 | 39    | 45    | 50    | 46    | 64    | 52    | 43    | 42    | 38    | 37    | 37    | 42    | 39 | 54    | 45    | 35    | 28 | 35 | 36    | 33    | 46    | 46    | 44.1 |
|                                     | Minimum | 42 | 38 | 30    | 31 | 44 | 44    | 35 | 25 | 27 | 34    | 33    | 26    | 29    | 45    | 34    | 27    | 24    | 25    | 22    | 18    | 17    | 29 | 36    | 34    | 24    | 16 | 26 | 28    | 15    | 24    | 29    | 29.4 |
| Flemington.....                     | Maximum | 50 | 54 | 46    | 52 | 53 | 47    | 46 | 41 | 38 | 38    | 45    | 49    | 46    | 64    | 51    | 41    | 39    | 38    | 37    | 37    | 40    | 35 | 53    | 42    | 32    | 26 | 34 | 35    | 32    | 45    | 46    | 43.8 |
|                                     | Minimum | 41 | 41 | 31    | 32 | 42 | 42    | 34 | 25 | 29 | 33    | 34    | 26    | 29    | 44    | 35    | 29    | 25    | 26    | 21    | 20    | 17    | 28 | 35    | 32    | 23    | 17 | 25 | 25    | 16    | 26    | 30    | 29.5 |
| Highwood.....                       | Maximum | 51 | 50 | 45    | 50 | 55 | 46    | 45 | 37 | 38 | 38    | 41    | 45    | 46    | 59    | 47    | 40    | 47    | 35    | 35    | 38    | 39    | 52 | 41    | 34    | 27    | 36 | 35 | 32    | 42    | 42    | 41.9  |      |
|                                     | Minimum | 41 | 36 | 25    | 31 | 45 | 40    | 31 | 23 | 27 | 33    | 32    | 23    | 27    | 45    | 32    | 27    | 24    | 25    | 20    | 17    | 15    | 28 | 31    | 29    | 21    | 13 | 25 | 22    | 14    | 24    | 27    | 27.6 |
| Jersey City.....                    | Maximum | 52 | 51 | 47    | 51 | 55 | 47    | 47 | 40 | 40 | 40    | 45    | 46    | 49    | 59    | 52    | 42    | 40    | 38    | 37    | 35    | 40    | 53 | 44    | 34    | 29    | 40 | 37 | 33    | 45    | 47    | 43.7  |      |
|                                     | Minimum | 43 | 40 | 34    | 39 | 46 | 42    | 34 | 28 | 31 | 34    | 34    | 31    | 34    | 48    | 37    | 32    | 28    | 26    | 25    | 24    | 34    | 40 | 43    | 54    | 43    | 34 | 30 | 39    | 39    | 34    | 45    | 44.1 |
| Kearny.....                         | Maximum | 56 | 54 | 48    | 54 | 56 | 50    | 44 | 40 | 40 | 44    | 48    | 48    | 65    | 49    | 43    | 40    | 34    | 34    | 34    | 34    | 40    | 43 | 54    | 43    | 34    | 30 | 39 | 39    | 34    | 45    | 45    | 44.1 |
|                                     | Minimum | 42 | 36 | 33    | 39 | 46 | 40    | 32 | 27 | 28 | 34    | 34    | 31    | 31    | 44    | 37    | 32    | 28    | 28    | 25    | 24    | 23    | 31 | 39    | 30    | 20    | 15 | 25 | 26    | 18    | 29    | 33    | 31.0 |
| Lambertville.....                   | Maximum | 53 | 52 | 48    | 51 | 53 | 46    | 43 | 39 | 38 | 43    | 43    | 39    | 46    | 63    | 53    | 40    | 38    | 36    | 36    | ..... | 38    | 49 | 43    | 34    | 32    | 34 | 35 | 31    | 42    | 40    | 42.5  |      |
|                                     | Minimum | 41 | 40 | ..... | 28 | 44 | 41    | 33 | 26 | 31 | 32    | 21    | 30    | 44    | 33    | 30    | 23    | 25    | 21    | ..... | 32    | ..... | 32 | ..... | 29    | 22    | 17 | 26 | 24    | 14    | 22    | ..... | 28.9 |
| Little Falls.....                   | Maximum | 51 | 51 | 49    | 55 | 55 | ..... | 42 | 46 | 54 | 61    | 45    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 39    | 38    | 44 | 53    | 39    | 31    | 34 | 40 | 34    | 44    | 44    | 44.8  |      |
|                                     | Minimum | 41 | 41 | 30    | 33 | 36 | 44    | 40 | 27 | 28 | 34    | 35    | 27    | 29    | 38    | 37    | 32    | 28    | 29    | 25    | 21    | 18    | 27 | 36    | 30    | 22    | 15 | 24 | ..... | ..... | ..... | 30.6  |      |
| Newark.....                         | Maximum | 49 | 50 | 46    | 52 | 54 | 45    | 45 | 38 | 38 | 38    | 42    | 48    | 47    | 62    | 46    | 39    | 37    | 35    | 34    | 38    | 42    | 53 | 38    | 31    | 28    | 37 | 37 | 32    | 45    | 45    | 42.3  |      |
|                                     | Minimum | 41 | 38 | 33    | 38 | 45 | 41    | 33 | 28 | 29 | 34    | 34    | 35    | 31    | 36    | 44    | 36    | 32    | 27    | 28    | 24    | 23    | 30 | 38    | 30    | 21    | 16 | 27 | 22    | 19    | 30    | 32    | 31.1 |
| New Brunswick.....                  | Maximum | 53 | 53 | 49    | 53 | 52 | 46    | 43 | 39 | 34 | 39    | 43    | 47    | 45    | 65    | 54    | 40    | 39    | 33    | 36    | 34    | 38    | 40 | 53    | 46    | 38    | 30 | 37 | 35    | 46    | 45    | 43.4  |      |
|                                     | Minimum | 42 | 40 | 31    | 36 | 45 | 42    | 33 | 26 | 27 | 32    | 31    | 28    | 29    | 35    | 35    | 29    | 24    | 25    | 21    | 19    | 19    | 27 | 39    | 33    | 16    | 26 | 27 | 16    | 27    | 30    | 29.5  |      |
| Paterson.....                       | Maximum | 50 | 51 | 47    | 51 | 55 | 47    | 46 | 40 | 39 | 40    | 42    | 47    | 43    | 59    | 50    | 41    | 42    | 37    | 35    | 37    | 41    | 38 | 53    | 45    | 33    | 30 | 35 | 36    | 33    | 44    | 46    | 43.0 |
|                                     | Minimum | 40 | 40 | 32    | 33 | 44 | 42    | 35 | 27 | 29 | 34    | 34    | 27    | 29    | 43    | 36    | 31    | 27    | 28    | 24    | 23    | 22    | 31 | 38    | 33    | 25    | 14 | 20 | 27    | 16    | 32    | 30.4  |      |
| Plainfield.....                     | Maximum | 50 | 53 | 47    | 52 | 56 | 47    | 47 | 40 | 40 | 39    | 42    | 48    | 45    | 65    | 47    | 42    | 41    | 38    | 36    | 35    | 40    | 53 | 38    | 31    | 26    | 34 | 36 | 31    | 43    | 43    | 43    | 42.7 |
|                                     | Minimum | 40 | 37 | 27    | 29 | 42 | 41    | 30 | 24 | 25 | 32    | 30    | 25    | 27    | 43    | 30    | 25    | 21    | 22    | 18    | 16    | 14    | 26 | 36    | 28    | 22    | 13 | 24 | 22    | 14    | 22    | 22    | 26.7 |
| Ridgefield.....                     | Maximum | 50 | 50 | 44    | 51 | 56 | 44    | 44 | 37 | 38 | 38    | 42    | 44    | 46    | 60    | 45    | 40    | 39    | 36    | 34    | 34    | 37    | 41 | 51    | 36    | 29    | 26 | 34 | 35    | 30    | 42    | 42    | 41.1 |
|                                     | Minimum | 42 | 31 | 27    | 36 | 43 | 39    | 26 | 25 | 28 | 32    | 31    | 25    | 28    | 42    | 34    | 28    | 25    | 20    | 18    | 29    | 36    | 24 | 17    | 13    | 24    | 20 | 16 | 25    | 25    | 27    | 27.6  |      |
| Somerville.....                     | Maximum | 54 | 54 | 48    | 52 | 56 | 48    | 48 | 44 | 44 | 42    | 45    | 48    | ..... | 65    |       |       |       |       |       |       |       |    |       |       |       |    |    |       |       |       |       |      |











U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Section Director.

TRENTON, N. J.

VOL. XXV. ANNUAL SUMMARY, 1920. No. 13.

### GENERAL SUMMARY.

The year 1920 opened with persistent cold weather over New Jersey, and all the typical features of severe winter weather continued into February. Excepting that March was slightly warmer than normal, the deficiency in warmth continued from the latter part of November, 1919, through July, 1920; thereafter there was a moderate excess of warmth through the close of the year. No conspicuous records were broken, temperatures did not reach 100° during the year, but did reach 25° below zero in February. There were heavy falls of sleet and snow in February with resulting interruption to traffic, and the excessive cold was followed by destruction of improved roads when the frost heaved the ground in the spring. The summer months and December were featured by excessive amounts of rain, and the harvest of grass and grains was reduced. October was a notably dry and very warm month, and produced an agreeable late prolongation of summer. The total precipitation of 1919 and 1920, were both approximately 52 inches, and have not previously been equalled since 1903. Coincident with the moderate excess of precipitation, was a deficiency of clear skies and sunshine, but wind force and direction produced no notable record.

The mean temperature for the year, 51.2°, was 0.3° below the normal. The warmest month was August, 72.3°, and the coldest, January, 23.6°. The highest temperature was 98° at Imlaystown on June 29th, and the lowest, 25° below zero at Culvers Lake on February 1st. The highest mean temperature was 54.5° at Vineland, and the lowest, 47.2° at Charlotteburg. The greatest annual range of temperature was 109° at Layton, being from 93° to -16°.

The average precipitation for the State, for the year, was 51.87 inches, which was 4.15 inches above the normal. The greatest monthly average was 6.18 inches in June, and the least, 1.80 inches in October. The greatest monthly precipitation was 16.25 inches at Newark in July, and the least, 0.55 inch at Bridgeton in October. The greatest annual precipitation was 65.45 inches at Newark, and the least, 42.89 inches at Trenton.

The average snowfall of the State was 35.1 inches, which was 1.5 inches above the normal. The greatest annual snowfall was 69.6 inches at Culvers Lake, and the least, 8.1 inches at Cape May City.

The average number of days on which 0.01 inch or more of precipitation occurred was 127, which was 13 more than the normal. The average number of clear days was 158, which was 17 more than the normal; partly cloudy, 94, which was 23 less than the normal; cloudy, 114, which was 6 more than the normal.

The prevailing wind direction was from the northwest; the highest velocity was 85 miles per hour, sustained for 5 consecutive minutes, from the northeast at Long Branch on November 17th.

Unimportant occurrences of hail were on April 4th, 5th, 11th, 23d, and 24th, May 4th and 21st, June 15th, 22d, and 24th, July 3d, 22d, 23d, 24th, and 31st, and August 21st. Minor damage from hail occurred on June 14th, 16th, and 30th. Considerable damage from hail occurred at Adelphia, Bridgeton, Freehold, Lakewood, and Ridgefield on June 11th; Bridgeton,

Burlington, Cedarville, and Fairton on June 13th; Folsom on June 17th; Mt. Bethel on June 24th; and Elizabeth, Imlaystown, New Brunswick, Newton, and Trenton on June 29th.

### COMPARATIVE ANNUAL DATA FOR THE STATE.

| Year.    | Temperature. |           |          | Average precipitation. | Year.    | Temperature. |           |          | Average precipitation. |
|----------|--------------|-----------|----------|------------------------|----------|--------------|-----------|----------|------------------------|
|          | Mean.        | High-est. | Low-est. |                        |          | Mean.        | High-est. | Low-est. |                        |
| 1885.... | 50.5         | 100       | -2       | 37.87                  | 1903.... | 51.7         | 100       | -16      | 56.25                  |
| 1886.... | 50.2         | 98        | -10      | 46.54                  | 1904.... | 49.3         | 100       | -34      | 37.41                  |
| 1887.... | 51.1         | 102       | -6       | 47.66                  | 1905.... | 51.3         | 102       | -18      | 42.06                  |
| 1888.... | 50.0         | 99        | -12      | 52.20                  | 1906.... | 52.8         | 98        | -15      | 46.38                  |
| 1889.... | 52.8         | 95        | -3       | 63.33                  | 1907.... | 50.4         | 96        | -22      | 51.65                  |
| 1890.... | 53.2         | 101       | 0        | 49.34                  | 1908.... | 52.6         | 106       | -17      | 42.58                  |
| 1891.... | 53.2         | 102       | 1        | 47.98                  | 1909.... | 52.0         | 100       | -15      | 40.86                  |
| 1892.... | 51.4         | 105       | -6       | 42.04                  | 1910.... | 52.0         | 99        | -15      | 39.73                  |
| 1893.... | 50.8         | 103       | -21      | 47.90                  | 1911.... | 52.6         | 104       | -12      | 50.36                  |
| 1894.... | 53.0         | 106       | -11      | 47.37                  | 1912.... | 51.3         | 100       | -32      | 46.61                  |
| 1895.... | 51.7         | 109       | -12      | 37.29                  | 1913.... | 54.2         | 100       | -11      | 46.99                  |
| 1896.... | 51.7         | 105       | -15      | 42.51                  | 1914.... | 51.4         | 99        | -18      | 39.23                  |
| 1897.... | 52.0         | 102       | -6       | 51.72                  | 1915.... | 52.5         | 98        | -5       | 47.37                  |
| 1898.... | 53.2         | 107       | -15      | 52.35                  | 1916.... | 51.2         | 100       | -18      | 38.17                  |
| 1899.... | 52.1         | 103       | -21      | 45.84                  | 1917.... | 49.6         | 104       | -29      | 40.80                  |
| 1900.... | 53.8         | 104       | -9       | 42.71                  | 1918.... | 51.2         | 108       | -24      | 37.65                  |
| 1901.... | 51.4         | 107       | -8       | 51.80                  | 1919.... | 52.5         | 103       | -18      | 52.10                  |
| 1902.... | 51.8         | 100       | -11      | 59.44                  | 1920.... | 51.2         | 98        | -25      | 51.87                  |

### MONTHLY STATE DATA FOR 1920.

| Month.         | Temperature. |                         |          |         | Precipitation. |                         |           |        |
|----------------|--------------|-------------------------|----------|---------|----------------|-------------------------|-----------|--------|
|                | Mean         | Depart-ure from normal. | Highest. | Lowest. | Average.       | Depart-ure from normal. | Greatest. | Least. |
| January.....   | 23.6         | -6.2                    | 53       | -14     | 2.60           | -1.21                   | 3.53      | 1.61   |
| February.....  | 27.9         | -2.1                    | 54       | -25     | 4.20           | +0.26                   | 7.20      | 2.39   |
| March.....     | 39.4         | +1.4                    | 79       | -8      | 3.80           | -0.24                   | 5.36      | 2.29   |
| April.....     | 48.0         | -1.0                    | 85       | 10      | 4.50           | +0.93                   | 6.06      | 2.90   |
| May.....       | 57.4         | -3.0                    | 89       | 25      | 3.00           | -0.83                   | 5.23      | 1.61   |
| June.....      | 68.4         | -0.8                    | 98       | 38      | 6.18           | +2.38                   | 11.26     | 3.12   |
| July.....      | 71.7         | -1.9                    | 96       | 42      | 5.76           | +0.96                   | 16.25     | 1.20   |
| August.....    | 72.3         | +0.3                    | 94       | 42      | 6.10           | +1.31                   | 10.60     | 2.94   |
| September..... | 66.9         | +1.0                    | 90       | 30      | 3.87           | -0.18                   | 8.53      | 1.67   |
| October.....   | 59.0         | +4.8                    | 87       | 25      | 1.80           | -1.86                   | 4.53      | 0.55   |
| November.....  | 43.0         | 0.0                     | 74       | 11      | 4.41           | +0.96                   | 7.90      | 2.14   |
| December.....  | 36.4         | +3.4                    | 69       | -1      | 5.10           | +1.34                   | 6.63      | 2.86   |
| Year.....      | *51.2        | -0.3                    | 98       | -25     | **51.87        | +4.15                   | 16.25     | 0.55   |

\* Mean of 34 stations.

\*\* Mean of the sums of 34 stations.

### KILLING FROSTS.

| Stations.                                   | Last in spring. | First in autumn. | Stations.                     | Last in spring. | First in autumn. |
|---------------------------------------------|-----------------|------------------|-------------------------------|-----------------|------------------|
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                               |                 |                  |
| Belvidere.....                              | May 5           | Oct. 7           | South Orange.....             | Apr. 10         | Nov. 12          |
| Charlotteburg.....                          | do. 6           | Sept. 20         | <i>The Southern Interior.</i> |                 |                  |
| Culvers Lake.....                           | do. 6           | do. 20           | Bridgeton.....                | Apr. 10         | do. 13           |
| Dover.....                                  | do. 5           | Nov. 4           | Burlington.....               | May 6           | do. 12           |
| Layton.....                                 | do. 16          | Sept. 29         | Camp Dix.....                 | Apr. 10         | Oct. 30          |
| Newton.....                                 | do. 5           | Nov. 12          | Clayton.....                  | May 6           | Nov. 4           |
| Phillipsburg.....                           | do. 5           | do. 12           | Hightstown.....               | Apr. 10         | Oct. 30          |
| Sussex.....                                 | do. 18          | do. 4            | Imlaystown.....               | May 3           | do. 30           |
| <i>The Red Sandstone Plain.</i>             |                 |                  | Indian Mills.....             | do. 3           | do. 30           |
| Bergen Point.....                           | Apr. 29         | Nov. 12          | Lakewood.....                 | do. 6           | Nov. 13          |
| Boonton.....                                | May 6           | do. 12           | Moorestown.....               | do. 5           | Nov. 12          |
| Elizabeth.....                              | Apr. 15         | do. 21           | Trenton.....                  | Apr. 11         | Nov. 12          |
| Flemington.....                             | do. 10          | do. 13           | Tuckerton.....                | May 5           | Oct. 30          |
| Highwood.....                               | do. 19          | do. 4            | Vineland.....                 | do. 6           | Nov. 12          |
| Jersey City.....                            | do. 11          | do. 12           | <i>The Sea Coast.</i>         |                 |                  |
| Kearny.....                                 | do. 10          | do. 12           | Asbury Park.....              | Apr. 10         | Nov. 13          |
| Lambertville.....                           | do. 14          | Oct. 30          | Atlantic City.....            | do. 9           | do. 13           |
| Little Falls.....                           | do. 9           | Nov. 12          | Cape May City.....            | do. 9           | do. 12           |
| Newark.....                                 | do. 10          | do. 12           | Long Branch.....              | do. 9           | do. 12           |
| New Brunswick.....                          | do. 11          | do. 12           | Sandy Hook.....               | do. 10          | do. 12           |
| Paterson.....                               | do. 18          | do. 12           |                               |                 |                  |
| Plainfield.....                             | May 6           | Oct. 24          |                               |                 |                  |
| Ridgefield.....                             | Apr. 12         | Nov. 12          |                               |                 |                  |
| Somerville.....                             | May 6           | Oct. 30          |                               |                 |                  |



## Climatological Data for the Year 1920.

| STATION.                             | Counties.       | Elevation, feet. | Temperature (degrees Fahrenheit). |              |          |          |         |          | Precipitation (inches).  |                     |                   |        |                |        |                            | Sky.                          |                    |                            |                     | Prevailing direction of wind. |  |
|--------------------------------------|-----------------|------------------|-----------------------------------|--------------|----------|----------|---------|----------|--------------------------|---------------------|-------------------|--------|----------------|--------|----------------------------|-------------------------------|--------------------|----------------------------|---------------------|-------------------------------|--|
|                                      |                 |                  | Length of record, years.          | Annual mean. | Highest. | Date.    | Lowest. | Date.    | Length of record, years. | Total for the year. | Greatest monthly. | Month. | Least monthly. | Month. | Total snowfall (unmelted). | Number days with .01 or more. | Number clear days. | Number partly cloudy days. | Number cloudy days. |                               |  |
| The Highlands and Kittatinny Valley. |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                            |                               |                    |                            |                     |                               |  |
| Belvidere.....                       | Warren.....     | 289              | 29                                | .....        | 94       | June 11  | -10     | Feb. 1   | 29                       | 51.96               | 9.28              | July   | 1.98           | Oct.   | 35.4                       | 98                            | .....              | .....                      | .....               | .....                         |  |
| Charlotteburg.....                   | Passaic.....    | 719              | 28                                | 47.2         | 87       | Aug. 8   | -12     | do. 1    | 28                       | 58.52               | 8.66              | do.    | 1.15           | do.    | .....                      | 93                            | .....              | .....                      | .....               | .....                         |  |
| Culvers Lake.....                    | Sussex.....     | 848              | .....                             | .....        | .....    | .....    | -25     | do. 1    | 19                       | 55.56               | 8.53              | Sept.  | 2.31           | do.    | 69.6                       | 144                           | 181                | 92                         | 93                  | .....                         |  |
| Dover.....                           | Morris.....     | 600              | 36                                | 48.6         | 93       | June 29  | -7      | do. 1    | 36                       | 56.86               | 9.05              | July   | 2.66           | do.    | 4.86                       | 132                           | 56                 | 197                        | 113                 | .....                         |  |
| Layton.....                          | Sussex.....     | 480              | 20                                | 47.8         | 93       | do. 11†  | -16     | do. 1    | 20                       | .....               | 7.96              | do.    | 2.34           | do.    | 46.7                       | 135                           | .....              | .....                      | .....               | s.                            |  |
| Newton.....                          | Sussex.....     | 769              | 39                                | 48.2         | 90       | do. 29   | -15     | do. 1    | 39                       | 59.32               | 12.52             | do.    | 2.03           | Jan.   | 49.7                       | 136                           | 154                | 87                         | 125                 | sw.                           |  |
| Phillipsburg.....                    | Warren.....     | 363              | 38                                | 50.0         | 95       | do. 11   | -11     | do. 1    | 38                       | 53.39               | 8.99              | do.    | 1.84           | Oct.   | 41.5                       | 127                           | 179                | 79                         | 108                 | nw.                           |  |
| Sussex.....                          | Sussex.....     | 442              | 29                                | .....        | 94       | do. 11   | -14     | do. 1    | 26                       | .....               | 7.76              | Sept.  | 2.40           | Jan.   | .....                      | .....                         | .....              | .....                      | .....               | .....                         |  |
| Means and extremes.....              |                 | .....            | .....                             | 48.4         | 95       | June 11  | -25     | Feb. 1   | .....                    | 55.90               | 12.52             | July   | 1.15           | Oct.   | 48.6                       | 123                           | 142                | 114                        | 110                 | nw.                           |  |
| The Red Sandstone Plain.             |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                            |                               |                    |                            |                     |                               |  |
| Bergen Point.....                    | Hudson.....     | 37               | 23                                | 51.6         | 93       | June 29  | -5      | Feb. 1   | 23                       | 56.27               | 7.90              | .....  | 1.06           | Oct.   | .....                      | 134                           | .....              | .....                      | .....               | nw.                           |  |
| Boonton.....                         | Morris.....     | 400              | 6                                 | 48.8         | 92       | do. 11   | -7      | Jan. 19† | 30                       | 53.44               | 8.85              | July   | 2.07           | Jan.   | 30.8                       | 132                           | 190                | 90                         | 86                  | nw.                           |  |
| Chatham.....                         | Morris.....     | 330              | .....                             | .....        | .....    | .....    | .....   | .....    | 18                       | 53.44               | 8.85              | do.    | 1.08           | Oct.   | .....                      | 132                           | .....              | .....                      | .....               | .....                         |  |
| Elizabeth.....                       | Union.....      | 45               | 41                                | 51.6         | 95       | June 29  | -3      | Feb. 1   | 41                       | 52.97               | 7.74              | do.    | 1.78           | do.    | 37.2                       | 121                           | .....              | .....                      | .....               | nw.                           |  |
| Flemington.....                      | Hunterdon.....  | 140              | 23                                | 51.8         | 95       | do. 29   | -3      | do. 1    | 32                       | 44.30               | 5.43              | do.    | 1.74           | do.    | 27.6                       | 121                           | 201                | 70                         | 95                  | w.                            |  |
| Highwood.....                        | Bergen.....     | 90               | 32                                | 49.6         | 90       | do. 11   | -6      | do. 1    | 32                       | 55.01               | 6.87              | do.    | 1.73           | do.    | 43.4                       | 134                           | 127                | 114                        | 125                 | nw.                           |  |
| Jersey City.....                     | Hudson.....     | 10               | 22                                | 53.1         | 94       | do. 11   | -4      | do. 1    | 21                       | 51.73               | 6.31              | Feb.   | 1.23           | do.    | 40.7                       | 129                           | 126                | 136                        | 104                 | nw.                           |  |
| Kearny.....                          | Hudson.....     | 100              | 1                                 | 52.3         | 93       | do. 11†  | 3       | Jan. 31  | 1                        | 50.53               | 6.01              | July   | 1.17           | do.    | 41.5                       | 110                           | .....              | .....                      | .....               | sw.                           |  |
| Lambertville.....                    | Hunterdon.....  | 300              | 33                                | .....        | 92       | do. 11   | 0       | do. 19   | 33                       | .....               | 9.45              | Aug.   | 0.78           | do.    | .....                      | .....                         | .....              | .....                      | .....               | w.                            |  |
| Little Falls.....                    | Passaic.....    | 180              | 6                                 | 51.9         | 97       | do. 11   | -2      | do. 31   | 17                       | 64.84               | 10.01             | July   | 3.00           | Jan.   | 43.7                       | 142                           | 181                | 84                         | 101                 | w.                            |  |
| Newark.....                          | Essex.....      | 159              | 78                                | 51.9         | 94       | do. 11†  | -3      | do. 31   | 78                       | 65.45               | 16.25             | do.    | 1.27           | Oct.   | 54.1                       | 132                           | 152                | 115                        | 99                  | nw.                           |  |
| New Brunswick.....                   | Middlesex.....  | 110              | 67                                | 51.6         | 91       | do. 11†  | -4      | Feb. 1   | 67                       | 55.47               | 9.64              | June   | 2.35           | do.    | 30.4                       | 129                           | 187                | 92                         | 87                  | nw.                           |  |
| Paterson.....                        | Passaic.....    | 80               | 49                                | 52.4         | 94       | do. 11   | -5      | do. 1    | 49                       | 50.05               | 6.70              | July   | 1.81           | do.    | 39.8                       | 129                           | .....              | .....                      | .....               | nw.                           |  |
| Plainfield.....                      | Somerset.....   | 110              | 33                                | 50.1         | 94       | Aug. 17  | -6      | do. 1    | 32                       | 52.06               | 8.32              | do.    | 2.21           | do.    | 39.0                       | 134                           | 138                | 136                        | 92                  | nw.                           |  |
| Ridgefield.....                      | Bergen.....     | 70               | 5                                 | 49.7         | 91       | June 11  | -6      | do. 1    | 5                        | 50.10               | 5.99              | Aug.   | 1.08           | do.    | 42.4                       | 141                           | 153                | 112                        | 101                 | nw.                           |  |
| Somerville.....                      | Somerset.....   | 160              | 38                                | 52.0         | 95       | do. 29   | -4      | do. 1    | 37                       | 53.46               | 7.21              | July   | 2.43           | do.    | 37.5                       | 128                           | 173                | 61                         | 132                 | sw.                           |  |
| South Orange.....                    | Essex.....      | 200              | 50                                | .....        | 92       | do. 11   | .....   | .....    | 50                       | .....               | 9.23              | do.    | 0.79           | do.    | 36.4                       | .....                         | .....              | .....                      | .....               | w.                            |  |
| New York, N. Y.....                  | .....           | 365              | 50                                | 51.9         | 90       | do. 11   | -3      | Jan. 31† | 50                       | 48.81               | 6.56              | Feb.   | 0.77           | do.    | 39.2                       | 138                           | 88                 | 140                        | 138                 | nw.                           |  |
| Means and extremes.....              |                 | .....            | .....                             | 51.3         | 97       | June 11  | -7      | Jan. 19† | .....                    | 53.98               | 16.25             | July   | 0.78           | Oct.   | 38.5                       | 130                           | 163                | 101                        | 102                 | nw.                           |  |
| The Southern Interior.               |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                            |                               |                    |                            |                     |                               |  |
| Bridgeton.....                       | Cumberland..... | 30               | 34                                | 54.1         | 96       | June 29† | 3       | Feb. 1   | 39                       | 46.79               | 8.59              | June   | 0.55           | Oct.   | 24.0                       | 102                           | 225                | 43                         | 98                  | sw.                           |  |
| Burlington.....                      | Burlington..... | 12               | 7                                 | 53.2         | 97       | do. 29   | -1      | do. 1    | 34                       | 49.74               | 9.25              | Aug.   | 1.73           | do.    | 26.8                       | 129                           | 255                | 31                         | 80                  | nw.                           |  |
| Camp Dix.....                        | Burlington..... | 127              | 2                                 | 51.8         | 93       | July 24  | -5      | Jan. 19  | 2                        | 51.76               | 8.71              | do.    | 1.21           | do.    | .....                      | 159                           | 36                 | 42                         | 288                 | sw.                           |  |
| Clayton.....                         | Gloucester..... | 130              | 24                                | 52.2         | 94       | do. 24   | -2      | do. 19   | 28                       | 42.95               | 8.06              | do.    | 1.70           | do.    | 18.4                       | 105                           | 186                | 62                         | 118                 | nw.                           |  |
| Hammononton.....                     | Atlantic.....   | 103              | .....                             | .....        | .....    | .....    | .....   | .....    | 18                       | .....               | 9.79              | June   | 1.67           | Sept.  | .....                      | .....                         | .....              | .....                      | .....               | nw.                           |  |
| Hightstown.....                      | Mercer.....     | 120              | 27                                | 51.3         | 94       | June 29  | -3      | Feb. 1   | 28                       | 45.88               | 7.27              | Aug.   | 2.25           | July   | .....                      | 117                           | .....              | .....                      | .....               | sw.                           |  |
| Imlaystown.....                      | Monmouth.....   | 185              | 31                                | 51.6         | 98       | do. 29   | -4      | Jan. 19  | 31                       | .....               | 5.95              | June   | 2.23           | Jan.   | .....                      | .....                         | .....              | .....                      | .....               | nw.                           |  |
| Indian Mills.....                    | Burlington..... | 76               | 31                                | 51.9         | 95       | do. 11†  | -7      | do. 19   | 30                       | 50.58               | 7.44              | do.    | 1.87           | Oct.   | 22.0                       | 125                           | 128                | 127                        | 111                 | nw.                           |  |
| Lakewood.....                        | Ocean.....      | 54               | 17                                | 50.9         | 94       | do. 11   | -6      | do. 19   | 16                       | 52.28               | 7.08              | do.    | 1.74           | do.    | 28.0                       | 133                           | 161                | 61                         | 144                 | w.                            |  |
| Moorestown.....                      | Burlington..... | 75               | 58                                | .....        | 94       | do. 11†  | 2       | Feb. 1   | 57                       | .....               | 10.60             | Aug.   | .....          | .....  | .....                      | .....                         | .....              | .....                      | .....               | nw.                           |  |
| Northfield.....                      | Atlantic.....   | 25               | .....                             | .....        | .....    | .....    | .....   | .....    | 13                       | 43.11               | 8.37              | June   | 1.44           | July   | 10.0                       | 118                           | .....              | .....                      | .....               | .....                         |  |
| Pleasantville.....                   | Atlantic.....   | 26               | .....                             | .....        | .....    | .....    | .....   | .....    | 22                       | .....               | 11.66             | do.    | 1.55           | Oct.   | .....                      | .....                         | 228                | 37                         | 101                 | .....                         |  |
| Trenton.....                         | Mercer.....     | 190              | 49                                | 51.6         | 93       | June 29  | -3      | Feb. 1   | 49                       | 42.89               | 7.08              | Aug.   | 0.92           | do.    | 22.1                       | 136                           | 114                | 112                        | 140                 | w.                            |  |
| Tuckerton.....                       | Ocean.....      | 23               | 22                                | 52.2         | 94       | do. 11   | -5      | Jan. 19  | 27                       | 53.64               | 10.23             | June   | 1.16           | do.    | 25.0                       | 112                           | 152                | 137                        | 77                  | nw.                           |  |
| Vineland.....                        | Cumberland..... | 109              | 52                                | 54.5         | 95       | do. 11†  | 3       | Feb. 1   | 51                       | .....               | .....             | .....  | 0.65           | do.    | .....                      | .....                         | .....              | .....                      | .....               | nw.                           |  |
| Philadelphia, Pa.....                | .....           | 117              | 50                                | 54.4         | 95       | do. 29   | 2       | do. 1    | 50                       | 46.16               | 7.31              | Aug.   | 0.64           | do.    | 17.4                       | 132                           | 114                | 105                        | 147                 | nw.                           |  |
| Means and extremes.....              |                 | .....            | .....                             | 52.4         | 98       | June 29  | -7      | Jan. 19  | .....                    | 47.96               | 11.66             | June   | 0.55           | Oct.   | 24.6                       | 124                           | 165                | 72                         | 129                 | nw.                           |  |
| The Sea Coast.                       |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                            |                               |                    |                            |                     |                               |  |
| Asbury Park.....                     | Monmouth.....   | 22               | 31                                | 51.4         | 92       | June 11  | 5       | Jan. 19† | 31                       | .....               | 6.19              | Aug.   | 1.17           | Oct.   | .....                      | .....                         | 194                | 81                         | 91                  | w.                            |  |
| Atlantic City.....                   | Atlantic.....   | 16               | 47                                | 52.0         | 88       | Aug. 31  | 7       | Feb. 1   | 47                       | 45.36               | 8.45              | June   | 0.67           | do.    | 10.3                       | 138                           | 156                | 92                         | 118                 | sw.                           |  |
| Cape May City.....                   | Cape May.....   | 17               | 36                                | 53.2         | 90       | June 30  | 7       | Jan. 31† | 36                       | 45.93               | 7.78              | Aug.   | 1.47           | do.    | 8.1                        | 125                           | 156                | 69                         | 141                 | nw.                           |  |
| Long Branch.....                     | Monmouth.....   | 25               | 13                                | 49.8         | 94       | do. 11   | 2       | Feb. 18  | 13                       | 57.18               | 9.04              | June   | 1.49           | do.    | 25.0                       | 124                           | 141                | 121                        | 104                 | nw.                           |  |
| Sandy Hook.....                      | Monmouth.....   | 22               | 22                                | 51.3         | 89       | do. 11   | 1       | do. 1    | 22                       | 44.47               | 6.69              | do.    | 0.83           | do.    | 33.9                       | 140                           | 95                 | 150                        | 121                 | sw.                           |  |
| Means and extremes.....              |                 | .....            | .....                             | 51.6         | 94       | June 11  | 1       | Feb. 1   | .....                    | 43.23               | 9.04              | June   | 0.67           | Oct.   | 19.3                       | 132                           | 148                | 104                        | 114                 | nw.                           |  |
| For the State.....                   |                 | .....            | .....                             | 51.2         | 98       | June 29  | -25     | Feb. 1   | .....                    | 51.87               | 16.25             | July   | 0.55           | Oct.   | 35.1                       | 127                           | 158                | 94                         | 114                 | nw.                           |  |

† Also on other dates.



| January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Annual. |
|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|---------|
|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|---------|

\* +11.52



Monthly and Annual Mean Temperatures for the Year 1920, with Departures from the Normal.

| STATIONS.                                   | January.     |            | February.    |            | March.       |            | April.       |            | May.         |            | June.        |            | July.        |            | August.      |            | September.   |            | October.     |            | November.    |            | December.    |            | Annual.      |            |
|---------------------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
|                                             | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. |
| <i>The Highlands and Kittatinny Valley.</i> |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Belvidere.....                              | 20.5         | -7.0       | 26.0         | -1.4       | 37.8         | +1.0       | 47.2         | -2.4       | 58.0         | -2.7       | 67.8         | -1.2       | 70.9         | -1.8       | 70.8         | 0.0        | .....        | .....      | 56.7         | +4.2       | 40.6         | -0.6       | 34.0         | +3.2       | .....        | .....      |
| Charlotteburg.....                          | 19.8         | -7.3       | 24.6         | -1.7       | 35.4         | +0.7       | 43.8         | -2.9       | 53.7         | -3.6       | 62.8         | -2.7       | 66.4         | -3.1       | 69.2         | +1.5       | 63.1         | +0.8       | 56.0         | +5.6       | 39.4         | -1.1       | 32.6         | +2.0       | 47.2         | -1.0       |
| Dover.....                                  | 20.0         | -6.6       | 24.6         | -1.6       | 36.6         | +1.7       | 45.0         | -2.3       | 56.2         | -2.4       | 66.4         | -0.8       | 70.2         | -1.2       | 70.4         | +1.2       | 64.2         | +1.6       | 57.4         | +6.7       | 40.0         | -0.3       | 32.6         | +2.5       | 48.6         | -0.1       |
| Layton.....                                 | 18.2         | -5.8       | 22.9         | -1.2       | 34.6         | +0.4       | 45.0         | -1.5       | 56.2         | -1.7       | 65.6         | -0.7       | 68.9         | -1.3       | 70.7         | +2.3       | 64.6         | +2.8       | 56.6         | +7.0       | 38.6         | +0.2       | 31.8         | +4.4       | 47.8         | +0.4       |
| Newton.....                                 | 18.0         | -7.7       | 23.1         | -2.6       | 36.1         | +0.3       | 44.1         | -3.5       | 56.8         | -2.5       | 66.2         | -1.5       | 69.3         | -2.6       | 69.8         | 0.0        | 64.6         | +1.0       | 58.5         | +6.8       | 39.2         | -0.6       | 32.3         | +3.0       | 48.2         | -0.8       |
| Phillipsburg.....                           | 20.4         | -7.5       | 26.2         | -1.6       | 38.0         | +0.1       | 46.8         | -2.8       | 58.6         | -2.7       | 68.7         | -0.9       | 71.7         | -2.3       | 72.1         | +0.4       | 65.6         | +0.2       | 57.6         | +4.7       | 40.6         | -1.0       | 34.2         | +2.9       | 50.0         | -0.9       |
| Sussex.....                                 | 18.5         | -7.6       | 23.1         | -3.1       | 36.1         | -0.3       | 45.6         | -2.7       | 57.2         | -2.7       | 66.8         | -0.8       | 70.7         | -1.0       | .....        | .....      | 66.4         | +2.5       | 57.6         | +5.4       | 39.7         | -0.8       | 33.7         | +3.9       | .....        | .....      |
| <i>The Red Sandstone Plain.</i>             |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Bergen Point.....                           | 23.7         | -6.5       | 28.1         | -2.3       | 39.7         | +1.9       | 48.2         | -0.3       | 57.0         | -2.7       | 67.9         | -0.9       | 72.3         | -1.1       | 73.4         | +1.7       | 67.8         | +1.1       | 59.8         | +5.5       | 43.9         | +0.9       | 37.0         | +4.0       | 51.6         | +0.1       |
| Boonton.....                                | 20.1         | .....      | 24.0         | .....      | 35.9         | .....      | 45.4         | .....      | 56.0         | .....      | 66.2         | .....      | 69.4         | .....      | 70.9         | .....      | 64.6         | .....      | 57.3         | .....      | 41.4         | .....      | 34.6         | .....      | 48.8         | .....      |
| Elizabeth.....                              | 24.0         | -6.1       | 29.0         | -1.4       | 39.8         | +1.4       | 48.4         | -2.4       | 57.4         | -4.8       | 68.4         | -2.8       | 72.4         | -3.1       | 73.4         | -0.1       | 67.0         | 0.0        | 59.8         | +5.1       | 43.4         | -0.2       | 36.8         | +3.3       | 51.6         | -0.9       |
| Flemington.....                             | 23.4         | -6.2       | 28.6         | -1.9       | 40.0         | +2.5       | 48.6         | -0.5       | 58.7         | -1.2       | 69.3         | +0.2       | 72.7         | -1.2       | 73.1         | +1.3       | 68.2         | +3.1       | 60.4         | +6.3       | 42.8         | 0.0        | 36.4         | +4.4       | 51.8         | +0.6       |
| Highwood.....                               | 22.2         | -6.7       | 27.7         | -1.0       | 37.2         | +1.0       | 46.6         | -1.9       | 56.5         | -3.2       | 66.9         | -1.4       | 70.6         | -1.9       | 71.2         | 0.0        | 64.3         | +0.1       | 56.7         | +4.0       | 41.0         | -1.3       | 34.8         | +2.4       | 49.6         | -0.8       |
| Jersey City.....                            | 25.2         | -5.6       | 29.8         | -1.4       | 41.5         | +3.2       | 49.4         | 0.0        | 58.8         | -2.3       | 70.4         | +0.4       | 74.8         | +0.1       | 73.9         | +0.6       | 69.1         | +1.9       | 61.4         | +5.8       | 44.8         | +1.2       | 38.2         | +4.2       | 53.1         | +0.7       |
| Kearny.....                                 | 22.9         | .....      | 28.6         | .....      | 41.2         | .....      | 49.6         | .....      | 59.9         | .....      | 69.6         | .....      | 73.2         | .....      | 73.9         | .....      | 68.2         | .....      | 60.4         | .....      | 42.8         | .....      | 37.6         | .....      | 52.3         | .....      |
| Lambertville.....                           | 22.2         | -8.2       | 27.1         | -3.3       | 38.0         | -1.0       | 47.6         | -2.8       | 56.3         | -5.4       | 67.0         | -3.3       | 70.1         | -4.4       | 70.8         | -1.6       | .....        | .....      | 57.4         | +3.8       | 41.6         | -1.4       | 35.7         | +2.4       | .....        | .....      |
| Little Falls.....                           | 22.7         | .....      | 27.9         | .....      | 39.7         | .....      | 48.4         | .....      | 60.0         | .....      | 70.3         | .....      | 74.3         | .....      | 74.3         | .....      | 67.2         | .....      | 59.6         | .....      | 44.2         | .....      | 37.7         | .....      | 51.9         | .....      |
| Newark.....                                 | 22.5         | -7.1       | 27.6         | -2.2       | 38.9         | +1.4       | 48.3         | -0.8       | 59.5         | -1.3       | 69.6         | -0.1       | 73.9         | -0.4       | 73.3         | +0.7       | 67.6         | +1.7       | 61.6         | +7.2       | 43.1         | +0.2       | 36.7         | +3.7       | 51.9         | +0.2       |
| New Brunswick.....                          | 24.0         | -6.5       | 28.4         | -2.9       | 40.9         | +2.7       | 48.7         | -1.0       | 57.8         | -2.8       | 67.8         | -1.8       | 72.1         | -2.2       | 72.0         | -0.4       | 67.0         | +1.0       | 60.4         | +5.8       | 43.8         | +0.2       | 36.4         | +3.3       | 51.6         | -0.4       |
| Paterson.....                               | 23.8         | -5.6       | 28.8         | -1.4       | 40.3         | +1.8       | 49.2         | -1.1       | 59.8         | -1.5       | 70.0         | -0.1       | 72.9         | -1.4       | 74.0         | +2.0       | 68.0         | +1.8       | 61.6         | +7.2       | 43.7         | +0.4       | 36.7         | +3.6       | 52.4         | +0.5       |
| Plainfield.....                             | 22.4         | -7.0       | 27.4         | -2.8       | 38.6         | +2.0       | 46.8         | -1.4       | 56.8         | -3.5       | 67.2         | -2.1       | 71.1         | -2.8       | 71.6         | -0.5       | 65.6         | +0.4       | 58.0         | +5.0       | 41.5         | -0.5       | 34.7         | +2.8       | 50.1         | -0.9       |
| Ridgefield.....                             | 21.6         | .....      | 26.5         | .....      | 37.4         | .....      | 46.2         | .....      | 56.6         | .....      | 67.2         | .....      | 71.0         | .....      | 71.9         | .....      | 64.9         | .....      | 57.4         | .....      | 41.6         | .....      | 34.4         | .....      | 49.7         | .....      |
| Somerville.....                             | 24.1         | -5.1       | 29.0         | -1.0       | 39.8         | +2.9       | 49.0         | +0.3       | 58.8         | -1.3       | 69.2         | 0.0        | 73.0         | -0.9       | 73.0         | +1.1       | 67.5         | +2.2       | 60.9         | +7.5       | 43.4         | +1.2       | 36.8         | +4.9       | 52.0         | +1.0       |
| South Orange.....                           | 22.6         | -6.1       | 28.8         | -0.2       | 37.6         | +0.8       | 47.2         | -1.1       | 57.4         | -2.6       | 68.8         | 0.0        | 71.8         | -1.3       | 72.0         | +1.3       | .....        | .....      | 58.7         | +5.8       | 42.8         | +1.2       | 35.7         | +3.7       | .....        | .....      |
| New York, N. Y.....                         | 24.1         | -6.1       | 29.1         | -1.6       | 40.6         | +3.1       | 47.7         | -0.4       | 57.8         | -1.5       | 67.6         | -0.9       | 72.5         | -1.0       | 72.8         | +0.6       | 67.4         | +0.9       | 60.4         | +4.8       | 44.2         | +0.2       | 37.8         | +3.4       | 51.9         | +0.1       |
| <i>The Southern Interior.</i>               |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Bridgeton.....                              | 26.9         | -6.1       | 31.6         | -2.3       | 43.2         | +2.1       | 52.5         | +0.7       | 59.5         | -4.5       | 71.4         | -2.0       | 75.4         | -1.7       | 74.8         | -0.3       | 68.0         | -0.2       | 61.0         | +4.3       | 45.5         | +0.6       | 39.4         | +3.8       | 54.1         | -0.5       |
| Burlington.....                             | 24.9         | -5.9       | 29.4         | -1.5       | 42.4         | +2.5       | 49.7         | -1.4       | 59.8         | -2.3       | 71.2         | +0.5       | 75.0         | -0.3       | 75.1         | +1.7       | 69.2         | +2.2       | 60.4         | +5.7       | 44.1         | +0.1       | 37.2         | +3.1       | 53.2         | +0.4       |
| Camp Dix.....                               | 24.5         | .....      | 28.4         | .....      | 40.6         | .....      | 48.9         | .....      | 57.2         | .....      | 69.0         | .....      | 72.2         | .....      | 73.2         | .....      | 66.7         | .....      | 59.1         | .....      | 44.1         | .....      | 37.4         | .....      | 51.8         | .....      |
| Clayton.....                                | 26.5         | -4.4       | 29.0         | -2.7       | 42.0         | +2.2       | 49.6         | -0.7       | 57.2         | -4.7       | 69.0         | -2.4       | 72.5         | -3.5       | 73.6         | +0.1       | 66.9         | +0.2       | 58.6         | +3.5       | 44.1         | +0.7       | 38.0         | +4.0       | 52.2         | -0.6       |
| Hightstown.....                             | 23.5         | -7.4       | 28.3         | -1.8       | 40.8         | +1.8       | 49.4         | -0.4       | 57.8         | -3.3       | 68.6         | -0.8       | 72.0         | -2.0       | 72.4         | +0.5       | 66.2         | -0.4       | 58.0         | +4.3       | 42.2         | -1.4       | 36.6         | +3.0       | 51.3         | -0.7       |
| Imhurst.....                                | 24.4         | -7.3       | 28.6         | -2.3       | 40.1         | +0.5       | 48.8         | -1.8       | 57.7         | -4.5       | 69.8         | -1.0       | 72.0         | -3.2       | 74.8         | +1.7       | 66.9         | +0.3       | 57.4         | +2.5       | 42.4         | -1.9       | 36.6         | +2.0       | 51.6         | -1.2       |
| Indian Mills.....                           | 25.0         | -6.4       | 29.6         | -2.5       | 41.2         | +1.4       | 49.9         | -0.4       | 57.4         | -4.6       | 69.2         | -1.8       | 72.0         | -3.1       | 72.7         | -0.4       | 67.0         | +0.9       | 58.2         | +3.8       | 43.4         | 0.0        | 36.8         | +2.8       | 51.9         | -0.9       |
| Lakewood.....                               | 24.9         | -7.2       | 27.8         | -2.0       | 39.6         | -0.4       | 48.8         | -0.9       | 55.8         | -4.7       | 68.4         | +0.8       | 71.2         | -1.7       | 72.1         | +1.4       | 64.9         | -0.5       | 56.8         | +1.5       | 43.0         | -0.2       | 37.1         | +3.3       | 50.9         | -0.9       |
| Moorestown.....                             | 25.8         | -4.3       | 30.2         | -0.8       | 43.1         | +4.3       | 50.3         | +0.3       | 59.0         | -2.1       | 71.0         | +0.8       | 74.4         | -0.4       | 74.6         | +2.1       | .....        | .....      | .....        | .....      | 44.1         | +1.1       | 39.0         | +5.7       | .....        | .....      |
| Trenton.....                                | 23.2         | -7.3       | 28.3         | -2.4       | 40.4         | +1.3       | 47.8         | -2.0       | 58.0         | -3.1       | 69.0         | -0.5       | 73.0         | -1.5       | 72.4         | -0.6       | 67.2         | +0.3       | 59.6         | +4.0       | 43.2         | -1.2       | 37.4         | +3.0       | 51.6         | -0.9       |
| Tuckerton.....                              | 27.4         | -4.3       | 29.8         | -2.3       | 40.2         | +1.2       | 49.6         | +1.7       | 55.9         | -3.8       | 69.5         | +0.5       | 72.5         | -1.6       | 73.5         | +1.3       | 67.4         | +1.4       | 58.7         | +3.9       | 44.6         | +0.6       | 37.6         | +3.1       | 52.2         | +0.1       |
| Vineland.....                               | 27.0         | -5.0       | 31.4         | -1.1       | 42.4         | +2.1       | 52.1         | +1.4       | 60.3         | -1.9       | 72.4         | +0.8       | 74.4         | -2.0       | 76.2         | +2.6       | 70.2         | +3.3       | 61.8         | +6.4       | 46.3         | +2.4       | 39.4         | +5.0       | 54.5         | +1.2       |
| Woodbine.....                               | 28.0         | -4.4       | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      |
| Philadelphia, Pa.....                       | 26.8         | -5.0       | 31.4         | -1.4       | 43.8         | +3.8       | 51.4         | +0.6       | 60.4         | -1.8       | 71.2         | 0.0        | 75.6         | -0.2       | 74.2         | +0.4       | 69.6         | +2.2       | 62.4         | +6.1       | 46.0         | +1.1       | 39.8         | +4.1       | 54.4         | +0.8       |
| <i>The Sea Coast.</i>                       |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Asbury Park.....                            | 26.6         | -4.8       | 27.7         | -4.2       | 39.7         | +1.4       | 48.2         | +0.1       | 55.6         | -3.1       | 67.4         | -0.8       | 68.6         | -4.3       | 70.2         | -1.7       | 67.3         | +0.4       | 60.6         | +5.0       | 46.0         | +1.8       | 39.4         | +4.9       | 51.4         | -0.4       |
| Atlantic City.....                          | 28.3         | -4.2       | 31.2         | -1.8       | 39.8         | +1.0       | 48.1         | +0.5       | 54.6         | -2.9       | 67.5         | +0.7       | 70.0         | -2.5       | 69.6         | -3.0       | 68.6         | +1.0       | 60.2         | +2.8       | 46.8         | +1.3       | 39.6         | +3.2       | 52.0         | -0.4       |
| Cape May City.....                          | 29.0         | -5.1       | 31.8         | -2.4       | 41.6         | +0.8       | 49.7         | +1.3       | 56.2         | -2.4       | 69.2         | +1.5       | 70.6         | -2.8       | 70.5         | -2.9       | 69.5         | +0.5       | 62.2         | +2.6       | 47.8         | +0.4       | 40.0         | +2.0       | 53.2         | -0.5       |
| Long Branch.....                            | 23.4         | -7.1       | 27.3         | -4.6       | 39.2         | +1.0       | 44.9         | -3.8       | 53.2         | -5.4       | 66.2         | -1.3       | 69.8         | -2.8       | 70.8         | -0.6       | 65.5         | -0.5       | 57.4         | +2.4       | 43.5         | -0.9       | 36.0         | +2.0       | 49.8         | -1.8       |
| Sandy Hook.....                             | 24.6         | -5.1       | 27.6         | -3.1       | 38.9         | +2.2       | 46.5         | -0.2       | 56.0         | -2.8       | 67.4         | -1.0       | 72.4         | -1.5       | 72.6         | -0.1       | 67.6         | +0.2       | 59.8         | +3.1       | 44.7         | +0.2       | 37.8         | +3.2       | 51.3         | -0.4       |

Letters of alphabet denote number of days missing.



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist.

VOL. XXVI. TRENTON, N. J., JANUARY, 1921. No. 1.

### GENERAL SUMMARY.

The general characteristics of January weather were largely absent during the first month of 1921 in New Jersey. The average temperature of the entire State was above freezing, and consequently with little snow and ice. Night temperatures were mostly well below freezing, but the warmth of daytime more than counteracted the freezing, and there were considerable periods with no frost in the ground. This open weather was in marked contrast with that of January, 1920, when one of the most severe winter months prevailed. From the 17th to the 20th, and from the 24th to the 27th the weather was moderately cold, and many streams and nearly all ponds were closed in with ice, but from central districts southward there was too little ice to harvest.

Cold waves occurred on the 18th and 25th, and the principal occurrences of snow were on the 12th, 14th and 31st. Floating ice came down the Delaware River on the 18th, and the river was frozen on the 20th from tidewater upstream, for several days, but the ice was pretty well gone by the close of the month.

An earthquake occurred at 6:40 p. m. of the 26th, in the vicinity of the extreme western portions of Burlington and Camden Counties, and thence about 15 miles to the eastward. The shock was abrupt, and of a trembling nature, and was felt by nearly everyone, and doors and furniture were moved. The quake was probably a sort of sand settling, or shifting, rather than of the percussion of a fault in rending rock structure.

Storm warnings were displayed along the coast on the 10th, 13th, 14th, 16th, 17th, 20th, 30th, and 31st.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 33.0°, which was 3.0° above the normal. The highest temperature was 63° at Indian Mills on the 21st, and the lowest, 11° below zero at Culvers Lake on the 5th. The greatest daily range of temperature was 44° at Boonton on the 27th. The highest monthly mean was 36.9° at Vineland, and the lowest, 29.1° at Newton.

The temperature departure from the normal for the year 1921 to date, by sections, is: The Highlands, +3.4°; Red Sandstone Plain, +2.8°; Southern Interior, +2.8°; Sea Coast, +3.2°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 2.63 inches, which was 1.03 inches below the normal. The greatest monthly precipitation was 3.49 inches at Dover, and the least, 1.78 inches at Hamonton. The average total snowfall was 2.7 inches, which was 2 inches below the normal; this average ranged from 5.6 inches at the Highlands to 1.0 inch on the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 2.20 inches at South Orange on the 14th. The average number of days on which .01 inch or more of precipitation fell was 9, which was 2 less than the normal.

The precipitation accumulated departure from the normal for the year 1921 to date, by sections, is: The Highlands, -0.68; Red Sandstone Plain, -0.98; Southern Interior, -1.16; Sea Coast, -1.43.

### WIND.

The prevailing wind direction was from the northwest, which was normal. The wind movement was approximately 12 miles per hour, which was probably normal. The highest velocity, sustained for 5 consecutive minutes, was 60 miles per hour from the northwest at Long Branch on the 25th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 3 more than the normal; partly cloudy, 8, or 1 less than the normal; cloudy, 10, or 2 less than the normal. The approximate per cent of possible sunshine was 53, which was slightly above the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.17 inches, which was 0.06 inch above the normal. The highest reading was 30.97 inches at Ridgefield and Sandy Hook on the 19th, and the lowest, 29.46 inches at Sandy Hook on the 14th.

The mean stage of the Delaware River at Phillipsburg was 3.2 feet, and the highest, 6.0 feet, on the 15th. At Trenton the mean daily stage was 2.8 feet, which was 0.8 foot below the normal. The highest stage was 6.2 feet on the 20th, and the lowest, 1.8 feet on the 14th.

Thunderstorms occurred over the northeast portion of the State on the 5th. Dense fog occurred on the 5th, 9th, 10th, 15th, 22d, 23d, and 30th. Haze occurred on the 20th and 28th. Sleet was observed quite generally throughout the northern half of the State on the 7th, and at a few stations on the 8th, 14th, 20th, and 31st. Solar halos were observed on the 3d, 11th, and 13th, and lunar halos on the 21st and 25th.

### COMPARATIVE DATA FOR JANUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.8         | 67       | 0       | 4.08           | 5.41      | 3.33   | .....        | .....          | .....   | .....                  |
| 1886..... | 27.3         | 60       | -10     | 4.47           | 5.59      | 3.08   | .....        | .....          | .....   | .....                  |
| 1887..... | 28.4         | 67       | -6      | 3.86           | 6.65      | 2.00   | .....        | .....          | .....   | .....                  |
| 1888..... | 25.4         | 59       | -12     | 4.77           | 6.74      | 2.80   | .....        | .....          | .....   | .....                  |
| 1889..... | 36.2         | 60       | 8       | 5.68           | 8.78      | 3.84   | .....        | .....          | .....   | .....                  |
| 1890..... | 41.3         | 78       | 12      | 2.29           | 3.22      | 1.05   | .....        | .....          | .....   | .....                  |
| 1891..... | 34.2         | 59       | 10      | 6.57           | 10.55     | 4.41   | 10           | 11             | 10      | 10                     |
| 1892..... | 29.9         | 67       | -6      | 5.13           | 7.05      | 2.50   | 10           | 9              | 12      | 10                     |
| 1893..... | 21.6         | 54       | -21     | 3.04           | 4.56      | 1.87   | 10           | 10             | 11      | 9                      |
| 1894..... | 34.2         | 61       | -4      | 2.34           | 3.80      | 1.18   | 10           | 8              | 13      | 11                     |
| 1895..... | 28.1         | 64       | -4      | 4.66           | 5.80      | 2.48   | 10           | 10             | 11      | 11                     |
| 1896..... | 28.6         | 61       | -7      | 1.66           | 2.81      | 0.68   | 12           | 10             | 9       | 5                      |
| 1897..... | 29.0         | 64       | -6      | 2.80           | 4.21      | 1.70   | 11           | 8              | 12      | 9                      |
| 1898..... | 32.6         | 64       | -10     | 4.20           | 5.90      | 2.79   | 9            | 11             | 11      | 11                     |
| 1899..... | 30.1         | 60       | -21     | 4.01           | 5.73      | 2.40   | 13           | 8              | 10      | 11                     |
| 1900..... | 32.4         | 64       | -5      | 3.85           | 5.50      | 2.37   | 11           | 11             | 9       | 10                     |
| 1901..... | 30.4         | 63       | -6      | 2.52           | 4.00      | 1.35   | 11           | 11             | 9       | 9                      |
| 1902..... | 28.4         | 58       | -5      | 3.28           | 4.35      | 2.52   | 12           | 9              | 10      | 10                     |
| 1903..... | 30.4         | 57       | -5      | 3.90           | 5.04      | 2.31   | 10           | 10             | 11      | 10                     |
| 1904..... | 23.3         | 58       | -34     | 3.09           | 4.67      | 1.34   | 13           | 7              | 11      | 10                     |
| 1905..... | 27.0         | 60       | -16     | 4.18           | 7.13      | 2.68   | 12           | 9              | 10      | 9                      |
| 1906..... | 36.5         | 74       | -5      | 2.85           | 3.86      | 2.08   | 11           | 9              | 11      | 11                     |
| 1907..... | 31.8         | 71       | -19     | 3.50           | 5.80      | 1.93   | 8            | 9              | 14      | 14                     |
| 1908..... | 31.8         | 60       | -6      | 3.74           | 5.22      | 2.29   | 12           | 11             | 8       | 9                      |
| 1909..... | 33.2         | 69       | -12     | 3.18           | 4.13      | 2.18   | 8            | 9              | 14      | 12                     |
| 1910..... | 29.7         | 54       | -15     | 5.04           | 6.65      | 3.66   | 8            | 8              | 15      | 15                     |
| 1911..... | 33.5         | 63       | 0       | 3.44           | 5.34      | 1.97   | 10           | 7              | 14      | 14                     |
| 1912..... | 22.3         | 58       | -32     | 2.82           | 4.62      | 1.73   | 8            | 12             | 11      | 13                     |
| 1913..... | 35.9         | 68       | 10      | 3.58           | 4.71      | 2.63   | 11           | 7              | 13      | 14                     |
| 1914..... | 31.9         | 73       | -18     | 3.85           | 6.15      | 1.95   | 9            | 8              | 14      | 9                      |
| 1915..... | 33.5         | 61       | -5      | 6.55           | 8.92      | 4.40   | 11           | 6              | 14      | 12                     |
| 1916..... | 35.1         | 74       | -8      | 1.60           | 2.96      | 0.92   | 11           | 8              | 12      | 11                     |
| 1917..... | 31.4         | 58       | -6      | 3.26           | 4.52      | 2.35   | 10           | 8              | 13      | 13                     |
| 1918..... | 20.3         | 56       | -24     | 4.14           | 6.14      | 2.78   | 12           | 8              | 11      | 11                     |
| 1919..... | 34.1         | 62       | -9      | 3.51           | 4.44      | 2.24   | 14           | 7              | 10      | 8                      |
| 1920..... | 23.6         | 53       | -14     | 2.60           | 3.53      | 1.61   | 11           | 7              | 13      | 11                     |
| 1921..... | 33.0         | 63       | -11     | 2.63           | 3.49      | 1.73   | 13           | 8              | 10      | 9                      |



## Climatological Data for January, 1921.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers.                |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|---------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |                           |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                           |
| Belvidere††                                 | Warren     | 289              | 30                       | 30.7                          | +3.4                       | 54       | 2†    | 1       | 19    | 36                        | 2.81   | -0.73                      | 1.77                  | 5.5                        | 8                              | 12     | 11          | 8                             | Samuel J. Hixson.         |
| Charlotteburg                               | Passaic    | 719              | 29                       | 29.8                          | +2.9                       | 51       | 2†    | -5      | 19    | 40                        | 2.72   | -0.83                      | 1.84                  | 5.5                        | 6                              | 18     | 10          | 3                             | George S. Briggs.         |
| Culvers Lake††                              | Sussex     | 848              | 20                       | 29.7                          | +3.1                       | 55       | 2†    | -11     | 25    | 37                        | 2.51   | -0.67                      | 1.45                  | 6.5                        | 9                              | 13     | 10          | 8                             | Brice E. Riker.           |
| Dover                                       | Morris     | 600              | 37                       | 29.7                          | +3.1                       | 55       | 2†    | -5      | 19    | 37                        | 3.49   | -0.90                      | 2.11                  | 5.5                        | 7                              | 18     | 8           | 8                             | William C. Harris.        |
| Layton                                      | Sussex     | 480              | 20                       | 29.4                          | +4.7                       | 57       | 2†    | -2      | 19    | 42                        | 2.79   | -0.10                      | 1.30                  | 5.5                        | 10                             | 11     | 7           | 13                            | A. M. Depue.              |
| Newton                                      | Sussex     | 769              | 38                       | 29.1                          | +3.4                       | 52       | 2†    | -3      | 25    | 33                        | 2.72   | -0.89                      | 1.75                  | 5.5                        | 9                              | 13     | 9           | 9                             | Irving G. Kern.           |
| Phillipsburg                                | Warren     | 363              | 39                       | 30.4                          | +2.3                       | 55       | 2†    | 1       | 19    | 31                        | 3.06   | -0.54                      | 1.90                  | 4.9                        | 9                              | 11     | 8           | 12                            | D. Wilson Smith.          |
| Sussex                                      | Sussex     | 442              | 27                       | 30.7                          | +4.1                       | 54       | 2     | -2      | 19    | 41                        | 2.71   | -0.77                      | 1.30                  | 5.5                        | 7                              | 12     | 12          | 7                             | Rev. W. August George.    |
| Means and extremes.                         |            |                  |                          | 30.0                          | +3.4                       | 57       | 2†    | -11     | 25    | 42                        | 2.85   | -0.68                      | 1.90                  | 5.6                        | 8                              | 12     | 11          | 8                             | w.                        |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                           |
| Bergen Point††                              | Hudson     | 37               | 24                       | 33.3                          | +2.6                       | 58       | 2†    | 4       | 19†   | 30                        | 2.38   | -1.51                      | 1.65                  | 2.5                        | 6                              | 9      | 15          | 7                             | William H. Mitchell.      |
| Boonton                                     | Morris     | 400              | 31                       | 29.8                          | +3.4                       | 55       | 2†    | -1      | 19    | 44                        | 3.10   | -0.73                      | 2.17                  | 4.0                        | 7                              | 24     | 5           | 2                             | J. W. Demmers.            |
| Chatham                                     | Morris     | 185              | 17                       | 33.9                          | +3.7                       | 57       | 2     | 2       | 19    | 34                        | 3.07   | -0.62                      | 1.96                  | 2.5                        | 9                              | 13     | 11          | 7                             | Paul Molitor, Sr.         |
| Elizabeth                                   | Union      | 45               | 42                       | 33.9                          | +3.7                       | 57       | 2     | 2       | 19    | 34                        | 2.72   | -1.32                      | 1.82                  | 2.5                        | 10                             | 11     | 13          | 7                             | L. B. Bonnett.            |
| Flemington                                  | Hunterdon  | 140              | 35                       | 33.1                          | +3.3                       | 57       | 2     | 3       | 19    | 34                        | 3.31   | -0.38                      | 2.00                  | 2.5                        | 10                             | 16     | 6           | 9                             | Hiram E. Deats.           |
| Highwood                                    | Bergen     | 90               | 33                       | 30.6                          | +1.8                       | 55       | 2†    | 0       | 19    | 33                        | 2.91   | -0.98                      | 1.70                  | 4.6                        | 9                              | 12     | 8           | 11                            | Charles J. Bates.         |
| Jersey City                                 | Hudson     | 10               | 24                       | 34.4                          | +2.2                       | 56       | 2     | 5       | 19    | 27                        | 2.40   | -1.10                      | 1.40                  | 5.2                        | 9                              | 14     | 7           | 10                            | S. K. Pearson, Jr.        |
| Kearny                                      | Hudson     | 100              | 2                        | 34.4                          | +2.2                       | 56       | 2     | 5       | 19    | 27                        | 2.40   | -1.10                      | 1.40                  | 5.2                        | 9                              | 14     | 7           | 10                            | Wm. J. Chandler, M. D.    |
| Lambertville                                | Hunterdon  | 300              | 34                       | 32.4                          | +1.9                       | 54       | 2†    | 1       | 19    | 28                        | 2.13   | -1.52                      | 1.90                  | 2.5                        | 9                              | 10     | 3           | 18                            | Thomas R. Hunt.           |
| Little Falls                                | Passaic    | 180              | 31                       | 31.9†                         | +4.5                       | 58       | 2†    | 5       | 25    | 35                        | 3.45   | -0.25                      | 1.85                  | 2.7                        | 9                              | 19     | 6           | 6                             | Montclair Water Co.       |
| Newark                                      | Essex      | 159              | 79                       | 31.8                          | +2.2                       | 55       | 2     | 4       | 19†   | 29                        | 2.67   | -1.09                      | 1.85                  | 2.7                        | 7                              | 16     | 6           | 9                             | Prof. William Wiener.     |
| New Brunswick                               | Middlesex  | 110              | 68                       | 34.0                          | +3.5                       | 58       | 2     | 2       | 19    | 32                        | 2.63   | -1.18                      | 1.68                  | 2.7                        | 9                              | 16     | 10          | 5                             | N. J. Experiment Station. |
| New Milford††                               | Bergen     | 80               | 2                        | 33.4                          | +3.8                       | 55       | 2†    | 4       | 19    | 32                        | 3.09   | -0.76                      | 2.02                  | 2.0                        | 9                              | 11     | 2           | 18                            | Hackensack Water Co.      |
| Paterson                                    | Passaic    | 110              | 33                       | 30.8                          | +0.8                       | 55       | 2†    | 0       | 19    | 31                        | 2.51   | -1.51                      | 1.75                  | 3.2                        | 10                             | 14     | 8           | 9                             | Marion T. Probert.        |
| Plainfield                                  | Somerset   | 70               | 6                        | 30.8                          | +0.8                       | 55       | 2†    | 1       | 19    | 33                        | 3.06   | -1.51                      | 1.69                  | 4.4                        | 11                             | 9      | 14          | 8                             | E. D. Pearson.            |
| Ridgefield††                                | Bergen     | 70               | 6                        | 30.8                          | +0.8                       | 55       | 2†    | 1       | 19    | 33                        | 3.06   | -1.51                      | 1.69                  | 4.4                        | 11                             | 9      | 14          | 8                             | George P. Kirsten.        |
| Somerville                                  | Somerset   | 60               | 38                       | 31.8                          | +2.9                       | 55       | 2†    | 3       | 19†   | 27                        | 3.21   | -0.82                      | 2.20                  | 4.0                        | 8                              | 10     | 12          | 9                             | Kenneth Bauer.            |
| South Orange                                | Essex      | 200              | 51                       | 31.8                          | +2.9                       | 55       | 2†    | 3       | 19†   | 27                        | 3.21   | -0.82                      | 2.20                  | 4.0                        | 8                              | 10     | 12          | 9                             | Wm. H. Meeder.            |
| Woodcliff Lake††                            | Bergen     | 365              | 51                       | 33.6                          | +3.4                       | 55       | 2     | 4       | 25    | 28                        | 1.65   | -2.14                      | 0.91                  | 2.6                        | 7                              | 9      | 10          | 12                            | Hackensack Water Co.      |
| New York, N. Y.                             |            |                  |                          | 33.6                          | +3.4                       | 55       | 2     | 4       | 25    | 28                        | 1.65   | -2.14                      | 0.91                  | 2.6                        | 7                              | 9      | 10          | 12                            | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 32.3                          | +2.8                       | 58       | 2†    | -1      | 19    | 44                        | 2.84   | -0.98                      | 2.20                  | 3.4                        | 9                              | 14     | 8           | 9                             | nw.                       |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                           |
| Bridgeton                                   | Cumberland | 30               | 40                       | 35.8                          | +2.1                       | 62       | 2†    | 7       | 19    | 30                        | 2.26   | -1.26                      | 1.35                  | 1.0                        | 8                              | 18     | 1           | 12                            | Henry A. Jorden.          |
| Burlington                                  | Burlington | 12               | 35                       | 34.8                          | +2.5                       | 58       | 2     | 5       | 19    | 31                        | 3.21   | -0.19                      | 1.60                  | 1.5                        | 10                             | 20     | 2           | 9                             | D. S. B. McCoy.           |
| Camp Dix                                    | Burlington | 127              | 3                        | 34.7                          | +2.5                       | 59       | 2     | 1       | 19    | 32                        | 3.21   | -0.19                      | 1.60                  | 1.5                        | 10                             | 20     | 2           | 9                             | U. S. Army.               |
| Clayton                                     | Gloucester | 130              | 28                       | 35.0†                         | +2.9                       | 60       | 2†    | 5       | 19    | 30†                       | 2.26   | -1.26                      | 1.35                  | 1.0                        | 8                              | 18     | 1           | 12                            | Marvin E. Porch.          |
| Hammonton                                   | Atlantic   | 103              | 20                       | 33.4                          | +3.5                       | 58       | 2     | 0       | 19    | 31                        | 1.78   | -1.99                      | 1.20                  | 1.0                        | 9                              | 16     | 7           | 8                             | Charles M. Phillips.      |
| Hightstown                                  | Mercer     | 120              | 29                       | 33.4                          | +3.5                       | 58       | 2     | 0       | 19    | 31                        | 2.75   | -0.52                      | 1.60                  | 1.0                        | 8                              | 16     | 5           | 10                            | E. H. Savage, Jr.         |
| Imlaystown                                  | Monmouth   | 115              | 33                       | 33.8                          | +2.7                       | 57       | 22    | 3       | 19    | 35                        | 3.04   | -0.50                      | 1.48                  | 1.5                        | 15                             | 12     | 7           | 12                            | Wm. R. Hendrickson.       |
| Indian Mills††                              | Burlington | 76               | 32                       | 34.6                          | +2.7                       | 63       | 21    | 0       | 19    | 36                        | 2.34   | -1.48                      | 1.50                  | 1.5                        | 9                              | 9      | 9           | 13                            | James M. Armstrong.       |
| Lakewood                                    | Ocean      | 54               | 17                       | 34.1                          | +2.8                       | 58       | 2†    | 2       | 19    | 32                        | 2.82   | -0.86                      | 1.75                  | 1.0                        | 8                              | 13     | 4           | 14                            | R. W. Holman.             |
| Moorestown                                  | Burlington | 75               | 58                       | 34.6†                         | +3.9                       | 59       | 2     | 4       | 19    | 30†                       | 2.09   | -1.37                      | 1.40                  | 1.0                        | 10                             | 10     | 10          | 10                            | Stokes Seed Farms Co.     |
| Northfield                                  | Atlantic   | 25               | 14                       | 34.6                          | +3.9                       | 59       | 2     | 4       | 19    | 30†                       | 2.09   | -1.37                      | 1.40                  | 1.0                        | 10                             | 10     | 10          | 10                            | William L. Flick.         |
| Pleasantville††                             | Atlantic   | 26               | 23                       | 34.6                          | +3.9                       | 59       | 2     | 4       | 19    | 30†                       | 2.09   | -1.37                      | 1.40                  | 1.0                        | 10                             | 10     | 10          | 10                            | Lincoln Van Gilder.       |
| Trenton                                     | Mercer     | 190              | 49                       | 33.4                          | +2.9                       | 58       | 2     | 4       | 19    | 32                        | 2.41   | -0.76                      | 1.42                  | 2.2                        | 9                              | 10     | 7           | 14                            | U. S. Weather Bureau.     |
| Tuckerton                                   | Ocean      | 23               | 28                       | 34.6†                         | +2.0                       | 61       | 2†    | 2       | 19    | 31                        | 2.47   | -1.16                      | 1.63                  | 1.7                        | 6                              | 10     | 12          | 9                             | Frank R. Austin.          |
| Vineland                                    | Cumberland | 109              | 52                       | 36.9                          | +4.7                       | 62       | 2†    | 5       | 19    | 28                        | 2.13   | -1.89                      | 1.52                  | 2.2                        | 9                              | 12     | 7           | 12                            | H. C. Himes.              |
| Woodbine                                    | Cape May   | 43               | 28                       | 33.7†                         | +0.7                       | 61†      | 23    | 4†      | 19    | 32†                       | 2.03   | -1.38                      | 1.55                  | 2.2                        | 9                              | 13     | 7           | 11                            | W. I. Zechman.            |
| Philadelphia, Pa.                           |            | 117              | 51                       | 36.0                          | +4.2                       | 61       | 2     | 7       | 19    | 31                        | 2.03   | -1.38                      | 1.55                  | 2.2                        | 9                              | 10     | 5           | 16                            | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 34.6                          | +2.8                       | 63       | 2†    | 0       | 19    | 36                        | 2.39   | -1.16                      | 1.75                  | 1.2                        | 9                              | 13     | 6           | 12                            | nw.                       |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                           |
| Asbury Park                                 | Monmouth   | 22               | 32                       | 36.8                          | +4.6                       | 59       | 2†    | 4       | 19    | 35                        | 2.82   | -0.75                      | 1.58                  | 0.4                        | 10                             | 18     | 6           | 7                             | Information Bureau.       |
| Atlantic City                               | Atlantic   | 16               | 48                       | 35.8                          | +3.3                       | 58       | 23    | 8       | 19    | 24                        | 1.91   | -1.49                      | 1.31                  | 0.7                        | 9                              | 11     | 6           | 14                            | U. S. Weather Bureau.     |
| Cape May City                               | Cape May   | 17               | 37                       | 36.4                          | +2.3                       | 57       | 23    | 7       | 19    | 21                        | 1.79   | -1.58                      | 1.07                  | 0.7                        | 7                              | 14     | 5           | 12                            | U. S. Weather Bureau.     |
| Long Branch                                 | Monmouth   | 25               | 14                       | 33.4                          | +1.8                       | 59       | 21    | 5       | 19    | 29                        | 2.66   | -1.52                      | 1.78                  | 0.4                        | 8                              | 12     | 7           | 12                            | William D. Martin, Jr.    |
| Sandy Hook                                  | Monmouth   | 22               | 23                       | 33.7                          | +3.8                       | 54       | 14    | 8       | 25    | 27                        | 2.06   | -1.79                      | 1.13                  | 3.3                        | 10                             | 9      | 10          | 12                            | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 35.2                          | +3.2                       | 59       | 2†    | 4       | 19    | 35                        | 2.25   | -1.43                      | 1.78                  | 1.0                        | 9                              | 13     | 7           | 11                            | nw.                       |
| For the State.                              |            |                  |                          | 33.0                          | +3.0                       | 63       | 2†    | -11     | 25    | 44                        | 2.63   | -1.03                      | 2.20                  | 2.7                        | 9                              | 13     | 8           | 10                            | nw.                       |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



| Daily Precipitation for January, 1921.     |                 |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     |        |      |      |
|--------------------------------------------|-----------------|---------------|-----|-----|----|-----|-----|-----|-----|---|-----|-----|-----|-----|------|------|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|-----|-----|--------|------|------|
| Stations.                                  | Watershed.      | Day of month. |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     | Total. |      |      |
|                                            |                 | 1             | 2   | 3   | 4  | 5   | 6   | 7   | 8   | 9 | 10  | 11  | 12  | 13  | 14   | 15   | 16 | 17 | 18 | 19 | 20 | 21 | 22  | 23  | 24  | 25  | 26 | 27 | 28 | 29 | 30  | 31  |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     |        |      |      |
| Belvidere.....                             | Delaware.....   |               | *   |     |    |     |     | *   | .24 |   |     |     |     |     | 1.77 | .14  |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     | .10 | .40    | 2.81 |      |
| Charlotteburg.....                         | Passaic.....    |               | *   |     |    |     | T.  | .35 |     |   |     |     |     |     | 1.84 |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     | .08 | .35    | 2.72 |      |
| Culvers Lake.....                          | Delaware.....   | T.            | .05 |     |    |     | T.  | .01 | .11 |   |     |     | T.  | T.  | 1.45 | .15  |    |    |    |    |    | T. | T.  |     |     |     |    |    |    |    | .20 | .46 | 2.51   |      |      |
| Dover.....                                 | Passaic.....    |               | .04 |     |    | .05 |     | .32 |     |   |     |     | T.  |     | 2.11 | T.   |    |    |    |    |    |    |     |     |     |     |    |    |    |    | .45 | .40 | 3.49   |      |      |
| Layton.....                                | Delaware.....   | .11           | .03 |     |    |     |     | .03 | .38 |   |     |     |     |     | 1.30 | .04  |    |    |    |    |    | T. |     |     |     |     |    |    |    |    |     | .20 | .56    | 2.79 |      |
| Newton.....                                | Delaware.....   |               | .03 |     |    |     |     | .02 | .26 |   |     |     | T.  |     | 1.75 | .04  |    | T. |    |    |    | T. |     |     | .12 | .02 |    |    |    |    |     | .15 | .35    | 2.72 |      |
| Phillipsburg.....                          | do.....         | T.            | .02 |     |    | T.  |     | .12 | T.  |   |     |     | .01 |     | 1.90 | .01  |    |    |    |    |    | T. |     |     | .08 | .04 |    |    |    |    |     | .35 | .46    | 3.06 |      |
| Sussex.....                                | Hudson.....     |               | T.  |     |    |     |     | .40 |     |   |     |     |     |     | 1.30 | .35  |    |    |    |    |    | T. |     |     | .17 | .02 | T. |    |    |    |     | .20 | .30    | 2.71 |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     |        |      |      |
| Bergen Point.....                          | Coast.....      |               | .03 |     |    | T.  | T.  | T.  | .25 |   |     |     | T.  |     | 1.65 | .02  |    |    |    |    |    |    | T.  |     |     |     |    |    |    |    | *   | .43 | 2.38   |      |      |
| Boonton III.....                           | Passaic.....    |               | .01 | T.  |    |     | .06 |     | .29 |   |     |     |     |     | .29  | 1.88 |    |    |    |    |    |    | T.  |     | .05 |     |    |    |    |    |     | T.  | .52    | 3.10 |      |
| Chatham II.....                            | do.....         |               | .12 |     |    |     | .05 |     | .22 |   |     |     | .01 |     | .24  | 1.96 |    |    |    |    |    |    | T.  |     | .06 |     |    |    |    |    |     | T.  | .41    | 3.07 |      |
| Elizabeth.....                             | Coast.....      |               | .04 |     |    | .04 | *   | *   | .23 |   |     |     | T.  |     | *    | 1.82 |    |    |    |    |    |    | T.  |     | *   | .04 | T. |    |    |    |     | .11 | .44    | 2.72 |      |
| Flemington.....                            | Raritan.....    | T.            | .16 |     |    | .05 |     | .02 | .18 |   |     |     | T.  | T.  | 2.00 | .09  |    |    |    |    |    |    | T.  |     | .23 | .02 |    |    |    |    |     | .14 | .42    | 3.31 |      |
| Highwood.....                              | Hackensack..... |               | .02 |     |    | .10 |     | .27 | .06 |   |     |     | T.  |     | 1.70 | .06  |    | T. |    |    |    | T. | T.  | .05 | .02 | T.  |    |    |    |    | T.  | .63 | 2.91   |      |      |
| Jersey City.....                           | Coast.....      |               | .01 |     |    | .03 |     | .04 | .20 |   |     |     | T.  |     | 1.40 | .05  |    | T. |    |    |    | T. |     | .02 |     | T.  |    |    |    |    |     | .10 | .55    | 2.40 |      |
| Kearny.....                                | Coast.....      |               |     |     |    |     |     | *   | *   |   |     |     |     |     | *    | 1.90 |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     | *   | .12    | 2.13 |      |
| Lambertville.....                          | Delaware.....   | T.            |     |     |    | *   |     | *   | *   |   |     |     |     |     | *    | 1.85 |    |    |    |    |    |    |     | .01 | .07 | T.  |    |    |    |    |     | .10 | .63    | 3.43 |      |
| Little Falls III.....                      | Passaic.....    |               | .11 |     |    |     | .05 |     | .30 |   |     |     |     |     | .33  | 1.85 |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     | .16 | .26    | 2.67 |      |
| Newark**.....                              | Coast.....      | T.            | .06 |     |    | .02 |     | .20 | .12 |   |     |     | T.  |     | 1.85 |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     | .10 | .33    | 2.63 |      |
| New Brunswick.....                         | Raritan.....    |               | .01 |     |    | .05 | T.  | .22 |     |   |     |     | .02 | T.  | 1.68 | .02  |    |    |    |    |    |    |     | .20 |     | T.  |    |    |    |    |     | .10 | .33    | 2.63 |      |
| New Milford.....                           | Hackensack..... |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     |        |      |      |
| Paterson.....                              | Passaic.....    |               | .06 |     |    | .03 |     | .05 | .18 |   |     |     | T.  |     | 2.02 | .08  |    |    |    |    |    | T. |     | .02 |     |     |    |    |    |    |     | .12 | .53    | 3.09 |      |
| Plainfield.....                            | Raritan.....    |               | .05 |     |    | .01 |     | .10 | .08 |   |     |     | .02 |     | 1.75 | .05  |    |    |    |    |    | T. | T.  | .03 |     | T.  |    |    |    |    |     | .12 | .30    | 2.51 |      |
| Ridgefield**.....                          | Hackensack..... | T.            | .01 |     |    | .09 |     | *   | .37 |   |     |     | .01 |     | *    | 1.69 |    |    |    |    |    |    |     | *   | .06 | T.  |    |    |    |    |     | T.  | .82    | 3.06 |      |
| Somerville.....                            | Raritan.....    |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    | .01 |     |     |     |    |    |    |    |     |     |        |      |      |
| South Orange.....                          | Rahway.....     |               | .14 |     |    | .02 |     | .16 | .03 |   |     |     | T.  |     | 2.20 |      |    | T. |    |    |    |    | T.  | T.  | .04 | T.  |    |    |    |    |     | .22 | .40    | 3.21 |      |
| Woodcliff Lake.....                        | Hackensack..... |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    | T.  | T.  | .04 | T.  |    |    |    |    |     |     |        |      |      |
| New York, N. Y***                          | Coast.....      |               | T.  |     |    | .06 |     | .17 | .04 |   |     |     | T.  |     | .91  |      |    | T. |    |    |    | T. |     | .01 |     | T.  |    |    |    |    |     | .22 | .24    | 1.65 |      |
| <i>The Southern Interior.</i>              |                 |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     |        |      |      |
| Bridgeton.....                             | Coast.....      |               |     |     |    | T.  |     | .10 | .05 |   | .30 |     | .18 |     | 1.35 |      |    |    |    |    |    |    |     | .05 |     |     |    |    |    |    |     | .08 | .15    | 2.26 |      |
| Burlington.....                            | Delaware.....   |               |     |     |    | .78 |     | *   | .19 |   |     |     | .14 |     | 1.60 | .05  |    |    |    |    |    |    | .21 | .02 |     |     |    |    |    |    |     | .04 | .18    | 3.21 |      |
| Camp Dix III.....                          | Delaware.....   |               | .01 |     |    | .03 |     | .18 |     |   | T.  | .06 | .14 | .22 | .27  | ‡    |    |    |    |    |    |    | .17 |     | T.  |     |    |    |    |    |     | .17 | .09    | 2.51 |      |
| Clayton.....                               | Maurice.....    | T.            |     |     |    |     |     | .06 |     |   |     |     | .11 |     |      |      |    |    |    |    |    |    | .16 |     | T.  |     |    |    |    |    |     |     |        |      |      |
| Hammonton.....                             | Mullica.....    | T.            |     |     |    |     |     | .12 | T.  |   | .04 | T.  | .08 |     | 1.20 | .11  |    |    |    |    |    |    | .05 | .04 |     |     |    |    |    |    |     | .05 | .09    | 1.78 |      |
| Hightstown.....                            | Raritan.....    |               | .07 |     |    | .15 |     | .03 | .26 |   |     |     | .09 |     | 1.60 |      |    |    |    |    |    |    | .20 |     |     |     |    |    |    |    |     | .05 | .30    | 2.75 |      |
| Imlaystown.....                            | Delaware.....   | T.            | .04 | .05 | T. |     | .07 | .03 | .25 |   | .24 | .01 | .14 |     | 1.48 | .11  | T. |    |    |    |    |    | .21 | .08 | .01 |     |    |    |    |    |     | .02 | .30    | 3.04 |      |
| Indian Mills.....                          | Mullica.....    |               | T.  |     |    | T.  | T.  | T.  | .18 |   | .03 |     | .18 |     | 1.50 | .16  |    |    |    |    |    |    | .08 | .05 |     |     |    |    |    |    |     | .06 | .10    | 2.34 |      |
| Lakewood.....                              | Metedeconk..... | T.            |     |     |    | .05 |     | .09 | .18 |   | T.  |     | .17 | T.  | 1.75 | .05  |    |    |    |    |    |    | .24 |     | T.  |     |    |    |    |    |     | T.  | .29    | 2.82 |      |
| Moorestown.....                            | Delaware.....   |               | .03 |     |    | .04 |     | .03 | .14 |   | .03 |     | .10 |     | 1.40 |      |    |    |    |    |    |    | .20 |     |     |     |    |    |    |    |     | *   | .12    | 2.09 |      |
| Northfield.....                            | Coast.....      | T.            |     |     |    |     |     | .03 | .04 |   | .14 |     | .05 |     | 1.24 | .13  |    |    |    |    |    |    | .02 | T.  |     |     |    |    |    |    |     | T.  | .14    | 1.79 |      |
| Pleasantville.....                         | Coast.....      |               | T.  |     |    |     |     | .08 | .04 |   | .19 |     | .06 |     | 1.37 | .08  |    |    |    |    |    |    | .03 | .04 |     |     |    |    |    |    |     | .01 | .06    | 1.96 |      |
| Trenton***.....                            | Delaware.....   | T.            | .02 |     |    | .09 | T.  | .11 | .06 |   |     |     | .08 |     | 1.42 |      |    |    |    |    |    |    | .22 |     | T.  |     |    |    |    |    |     | .05 | .36    | 2.41 |      |
| Tuckerton.....                             | Coast.....      |               | T.  |     |    |     |     | .40 |     |   | .12 |     | .11 |     | 1.63 |      |    |    |    |    |    |    | .12 | *   |     |     |    |    |    |    |     |     | .09    | .24  | 2.47 |
| Wineland.....                              | Maurice.....    |               | .02 |     |    |     |     | .04 | .09 |   | .10 |     | .13 |     | 1.52 |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     | .13 | .10    | 2.13 |      |
| Woodbine.....                              | Coast.....      |               | T.  |     |    |     |     |     |     |   | .05 | .01 | .03 |     | T.   | 1.55 |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     |        |      |      |
| Philadelphia, Pa.                          | Delaware.....   |               | .02 |     |    | .02 |     | .10 | .04 |   |     |     | .07 | T.  | 1.55 |      |    |    |    |    |    |    | .08 |     | T.  |     |    |    |    |    |     | .01 | .11    | 2.03 |      |
| <i>The Sea Coast.</i>                      |                 |               |     |     |    |     |     |     |     |   |     |     |     |     |      |      |    |    |    |    |    |    |     |     |     |     |    |    |    |    |     |     |        |      |      |
| Asbury Park.....                           | Coast.....      |               | .05 |     |    | .06 |     | *   | .40 |   |     |     | .18 |     | 1.58 |      |    |    |    |    |    |    | .10 |     |     | .01 |    |    |    |    |     | .13 | .31    | 2.82 |      |
| Atlantic City***.....                      | do.....         | T.            | T.  |     |    | T.  |     | .03 | .02 |   | .18 |     | .07 |     | 1.31 |      |    |    |    |    |    |    | .05 | .01 |     |     |    |    |    |    |     | .02 | .22    | 1.91 |      |
| Cape May City.....                         | do.....         |               |     |     |    |     |     | .03 | .03 |   | .46 |     | .16 |     | .97  | .10  |    |    |    |    |    |    | T.  | .01 |     |     |    |    |    |    |     | T.  | .06    | 1.79 |      |
| Long Branch**.....                         | do.....         |               | .10 |     |    | .10 |     | .19 | .09 |   |     |     | .17 |     | 1.78 |      |    |    |    |    |    |    | .10 |     |     |     |    |    |    |    |     | .04 | .19    | 2.66 |      |
| Sandy Hook***.....                         | do.....         | T.            | .01 |     |    | .10 | .02 | .18 | .06 |   |     | T.  | .04 |     | 1.13 |      |    |    |    |    |    |    | .05 |     |     |     |    |    |    |    |     | .12 | .35    | 2.06 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
|| Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
\* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture.                                  |                                            | Sun-<br>shine |    |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|--------------------------------------------|--------------------------------------------|---------------|----|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. |               |    |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. |                                            |                                            | Date.         |    |
| Atlantic City.....    | 30.18         | 30.94    | 19    | 29.54   | 14    | 8                | 34              | s.         | 14                                         | 74                                         | 70            | 52 |
| Cape May City.....    | 30.22         | 30.95    | 19    | 29.61   | 14    | 10               | 36              | nw.        | 12                                         | 76                                         | 76            | 50 |
| Long Branch.....      |               |          |       |         |       |                  | 60              | nw.        | 25                                         |                                            |               |    |
| Newark.....           |               |          |       |         |       |                  |                 |            |                                            | 68*                                        | 64†           | 59 |
| New York, N. Y.....   | 30.15         | 30.97    | 19    | 29.49   | 14    | 21               | 84              | nw.        | 17                                         | 68                                         | 62            | 54 |
| Philadelphia, Pa..... | 30.18         | 31.00    | 19    | 29.51   | 14    | 11               | 35              | s.         | 14                                         | 80                                         | 79            | 57 |
| Albany.....           | 30.15         | 30.97    | 19    | 29.49   | 14    |                  |                 |            |                                            |                                            |               |    |
| Andover Hook.....     | 30.16         | 30.97    | 19    | 29.46   | 14    | 19               | 55              | w.         | 17                                         | 79                                         | 73            | 55 |
| Andover.....          | 30.16         | 30.93    | 19    | 29.49   | 14    | 12               | 44              | w.         | 17                                         | 78                                         | 66            | 47 |



## Daily Temperatures for January, 1921.

| Stations.                                  | 1          | 2  | 3   | 4  | 5  | 6   | 7  | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18 | 19  | 20  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean.             |                   |                   |
|--------------------------------------------|------------|----|-----|----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| <i>The Highlands and Kittatinny Valley</i> |            |    |     |    |    |     |    |     |     |     |     |     |     |     |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                             | Maximum... | 42 | 54  | 45 | 48 | 50  | 35 | 35  | 43  | 35  | 40  | 45  | 39  | 34  | 44 | 36 | 37 | 31 | 20  | 25  | 35 | 54 | 50 | 49 | 40 | 27 | 33 | 40 | 44 | 40 | 38 | 35                | 39.5              |                   |
|                                            | Minimum... | 31 | 31  | 31 | 24 | 27  | 32 | 19  | 29  | 25  | 20  | 31  | 29  | 17  | 24 | 28 | 21 | 20 | 6   | 1   | 16 | 31 | 30 | 35 | 27 | 4  | 7  | 7  | 8  | 20 | 33 | 16                | 21.9              |                   |
| Charlotteburg.....                         | Maximum... | 37 | 48  | 50 | 47 | 48  | 45 | 38  | 39  | 35  | 38  | 44  | 40  | 34  | 38 | 36 | 39 | 33 | 25  | 35  | 36 | 51 | 47 | 40 | 40 | 36 | 36 | 38 | 40 | 40 | 49 | 37                | 39.6              |                   |
|                                            | Minimum... | 11 | 34  | 32 | 20 | 34  | 28 | 14  | 25  | 26  | 12  | 24  | 28  | 13  | 20 | 27 | 21 | 19 | 1   | -5  | 21 | 30 | 38 | 36 | 24 | -2 | 6  | -1 | 16 | 13 | 30 | 21                | 19.9              |                   |
| Dover.....                                 | Maximum... | 40 | 52  | 43 | 48 | 50  | 38 | 32  | 39  | 33  | 40  | 46  | 36  | 29  | 50 | 42 | 34 | 33 | ... | ... | 25 | 35 | 55 | 49 | 49 | 33 | 18 | 30 | 43 | 40 | 41 | 40                | 36                | 39.3 <sup>a</sup> |
|                                            | Minimum... | 16 | 29  | 34 | 26 | 37  | 23 | 19  | 29  | 21  | 19  | 26  | 21  | 15  | 22 | 25 | 22 | 12 | 3   | -5  | 16 | 32 | 38 | 33 | 13 | 1  | 6  | 16 | 18 | 31 | 20 | 20.1              |                   |                   |
| Layton.....                                | Maximum... | 39 | 54  | 45 | 48 | 52  | 43 | ... | 40  | 36  | ... | 45  | 38  | ... | 41 | 42 | 35 | 35 | 15  | 28  | 35 | 57 | 53 | 48 | 42 | 20 | 29 | 43 | 42 | 42 | 37 | 35                | 40.0 <sup>a</sup> |                   |
|                                            | Minimum... | 13 | 33  | 29 | 20 | 28  | 28 | ... | 28  | 23  | 15  | 13  | 29  | ... | 22 | 28 | 20 | 15 | 3   | -2  | 13 | 31 | 32 | 36 | 19 | 0  | 4  | 1  | 8  | 9  | 32 | 22                | 18.7 <sup>b</sup> |                   |
| Newton.....                                | Maximum... | 38 | 51  | 42 | 47 | 49  | 43 | 30  | 38  | 38  | 36  | 43  | 38  | 28  | 49 | 49 | 33 | 34 | 16  | 22  | 33 | 52 | 52 | 47 | 37 | 20 | 28 | 38 | 37 | 42 | 37 | 35                | 38.1              |                   |
|                                            | Minimum... | 20 | 36  | 32 | 29 | 28  | 26 | 20  | 28  | 22  | 20  | 22  | 25  | 14  | 22 | 25 | 21 | 15 | 3   | -1  | 9  | 25 | 36 | 33 | 18 | -3 | 5  | 5  | 18 | 21 | 32 | 18                | 20.1              |                   |
| Phillipsburg.....                          | Maximum... | 40 | 53  | 45 | 47 | 50  | 39 | 32  | 41  | 34  | 39  | 43  | 37  | 29  | 47 | 37 | 36 | 35 | 18  | 24  | 37 | 55 | 49 | 49 | 35 | 19 | 31 | 39 | 42 | 45 | 39 | 36                | 38.8              |                   |
|                                            | Minimum... | 24 | 37  | 33 | 26 | 29  | 26 | 21  | 31  | 25  | 23  | 23  | 20  | 17  | 24 | 28 | 23 | 17 | 6   | 1   | 18 | 31 | 37 | 34 | 15 | 5  | 9  | 8  | 20 | 21 | 34 | 20                | 22.1              |                   |
| Sussex.....                                | Maximum... | 46 | 54  | 45 | 46 | 50  | 44 | 32  | 40  | 39  | 39  | 40  | 38  | 34  | 45 | 47 | 46 | 35 | 29  | 27  | 36 | 53 | 51 | 51 | 47 | 30 | 31 | 44 | 40 | 45 | 39 | 36                | 41.3              |                   |
|                                            | Minimum... | 32 | 31  | 27 | 21 | 33  | 30 | 18  | 29  | 20  | 12  | 11  | 30  | 15  | 23 | 29 | 22 | 20 | 8   | -2  | 11 | 23 | 37 | 37 | 24 | 1  | 7  | 3  | 10 | 15 | 32 | 20                | 20.1              |                   |
| <i>The Red Sandstone Plain.</i>            |            |    |     |    |    |     |    |     |     |     |     |     |     |     |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                          | Maximum... | 45 | 58  | 48 | 53 | 58  | 48 | 37  | 44  | 37  | 42  | 50  | 40  | 30  | 55 | 53 | 39 | 38 | 20  | 21  | 38 | 58 | 48 | 58 | 39 | 22 | 31 | 42 | 42 | 43 | 44 | 41                | 42.6              |                   |
|                                            | Minimum... | 25 | 38  | 34 | 30 | 38  | 30 | 22  | ... | 30  | 27  | 29  | 28  | 19  | 25 | 31 | 25 | 18 | 8   | 4   | 16 | 30 | 32 | 37 | 20 | 4  | 10 | 12 | 21 | 25 | 29 | 23                | 24.0 <sup>a</sup> |                   |
| Boonton§§.....                             | Maximum... | 41 | 55  | 47 | 49 | 54  | 41 | 35  | 44  | 36  | 42  | 49  | 41  | 34  | 55 | 36 | 38 | 33 | 18  | 28  | 38 | 55 | 44 | 54 | 39 | 23 | 33 | 48 | 45 | 45 | 42 | 31                | 41.1              |                   |
|                                            | Minimum... | 17 | 19  | 32 | 24 | 26  | 31 | 17  | 17  | 24  | 19  | 23  | 25  | 16  | 16 | 22 | 20 | 23 | 5   | -1  | 0  | 20 | 28 | 35 | 27 | 2  | 2  | 4  | 10 | 13 | 28 | 26                | 18.4              |                   |
| Elizabeth.....                             | Maximum... | 45 | 57  | 49 | 52 | 52  | 47 | 36  | 45  | 39  | 42  | 50  | 42  | 36  | 52 | 55 | 38 | 34 | 24  | 27  | 38 | 56 | 49 | 55 | 45 | 30 | 32 | 43 | 41 | 43 | 45 | 42                | 43.3              |                   |
|                                            | Minimum... | 22 | 34  | 33 | 27 | 34  | 33 | 20  | 33  | 30  | 28  | 28  | 34  | 18  | 25 | 32 | 25 | 24 | 8   | 2   | 14 | 30 | 35 | 39 | 27 | 5  | 8  | 9  | 17 | 23 | 34 | 29                | 24.5              |                   |
| Flemington.....                            | Maximum... | 43 | 57  | 47 | 49 | 52  | 42 | 32  | 43  | 37  | 40  | 47  | 40  | 34  | 51 | 51 | 36 | 37 | 23  | 28  | 38 | 56 | 52 | 51 | 42 | 27 | 33 | 42 | 42 | 48 | 43 | 41                | 42.1              |                   |
|                                            | Minimum... | 23 | 32  | 33 | 25 | 30  | 32 | 22  | 31  | 29  | 27  | 29  | 33  | 17  | 26 | 33 | 25 | 23 | 9   | 3   | 15 | 30 | 39 | 35 | 27 | 7  | 11 | 8  | 14 | 19 | 33 | 27                | 24.1              |                   |
| Highwood.....                              | Maximum... | 42 | 55  | 46 | 48 | 49  | 44 | 34  | 41  | 35  | 39  | 48  | 37  | 29  | 55 | 54 | 37 | 36 | 19  | 22  | 36 | 50 | 50 | 51 | 39 | 20 | 26 | 38 | 39 | 40 | 41 | 38                | 39.9              |                   |
|                                            | Minimum... | 18 | 38  | 30 | 26 | 33  | 27 | 17  | 30  | 26  | 23  | 27  | 27  | 18  | 26 | 32 | 26 | 17 | 7   | 0   | 12 | 26 | 20 | 37 | 18 | 4  | 7  | 5  | 13 | 18 | 32 | 22                | 21.4              |                   |
| Jersey City.....                           | Maximum... | 45 | 56  | 49 | 52 | 51  | 46 | 36  | 44  | 36  | 42  | 48  | 41  | 32  | 51 | 55 | 38 | 38 | 31  | 32  | 37 | 53 | 50 | 54 | 40 | 23 | 31 | 37 | 40 | 43 | 44 | 40                | 42.4              |                   |
|                                            | Minimum... | 27 | 39  | 36 | 33 | 39  | 31 | 25  | 30  | 33  | 32  | 32  | 30  | 19  | 27 | 33 | 28 | 19 | 9   | 5   | 20 | 32 | 35 | 38 | 23 | 6  | 11 | 14 | 25 | 30 | 36 | 26                | 26.5              |                   |
| Kearny.....                                | Maximum... | 44 | 54  | 49 | 47 | 50  | 44 | 35  | 40  | 40  | 39  | 43  | 42  | 34  | 52 | 52 | 35 | 37 | 25  | 21  | 36 | 54 | 54 | 51 | 41 | 28 | 27 | 35 | 39 | 43 | 43 | 40                | 41.1              |                   |
|                                            | Minimum... | 26 | 34  | 33 | 26 | 31  | 33 | 20  | 31  | 29  | 26  | 27  | 31  | 16  | 24 | 29 | 24 | 24 | 8   | 1   | 14 | 29 | 37 | 37 | 27 | 6  | 10 | 7  | 13 | 20 | 34 | 32                | 23.8              |                   |
| Lambertville.....                          | Maximum... | 41 | 55  | 47 | 49 | 54  | 41 | 35  | 44  | 36  | 42  | 49  | 41  | 34  | 55 | 36 | 38 | 33 | 18  | 28  | 38 | 56 | 50 | 52 | 35 | 22 | 32 | 44 | 41 | 42 | 46 | 33                | 41.0 <sup>a</sup> |                   |
|                                            | Minimum... | 29 | 38  | 36 | 36 | ... | 25 | 37  | ... | ... | ... | ... | ... | 19  | 32 | 28 | 28 | 8  | 6   | 7   | 26 | 23 | 39 | 30 | 5  | 9  | 9  | 12 | 21 | 32 | 30 | 22.8 <sup>a</sup> |                   |                   |
| Little Falls.....                          | Maximum... | 41 | 55  | 45 | 49 | 47  | 38 | 38  | 42  | 34  | 40  | 47  | 38  | 30  | 54 | 41 | 35 | 34 | 14  | 24  | 35 | 52 | 48 | 52 | 34 | 18 | 29 | 40 | 38 | 38 | 42 | 30                | 38.8              |                   |
|                                            | Minimum... | 28 | 41  | 36 | 34 | 37  | 25 | 24  | 34  | 30  | 27  | 33  | 23  | 20  | 25 | 30 | 26 | 15 | 6   | 4   | 19 | 31 | 40 | 34 | 16 | 4  | 10 | 11 | 23 | 26 | 34 | 22                | 24.8              |                   |
| Newark.....                                | Maximum... | 46 | 58  | 54 | 52 | 51  | 46 | 35  | 43  | 40  | 41  | 46  | 43  | 37  | 56 | 57 | 38 | 39 | 26  | 24  | 39 | 54 | 50 | 54 | 47 | 31 | 30 | 40 | 40 | 42 | 45 | 43                | 43.4              |                   |
|                                            | Minimum... | 24 | ... | 36 | 29 | 36  | 33 | 21  | 32  | 32  | 28  | 30  | 32  | 18  | 24 | 31 | 25 | 24 | 9   | 2   | 13 | 30 | 40 | 37 | 28 | 5  | 10 | 11 | 21 | 25 | 33 | 23                | 24.7 <sup>a</sup> |                   |
| New Brunswick.....                         | Maximum... | 40 | 55  | 53 | 52 | 51  | 47 | 35  | 44  | 38  | 40  | 50  | 41  | 37  | 50 | 53 | 36 | 36 | 23  | 24  | 36 | 55 | 53 | 53 | 49 | 24 | 33 | 43 | 45 | 43 | 41 | 41                | 42.6              |                   |
|                                            | Minimum... | 24 | 32  | 34 | 29 | 33  | 31 | 23  | ... | 26  | 26  | 28  | 35  | 19  | 25 | 33 | 27 | 19 | 8   | 4   | 18 | 29 | 35 | 40 | 23 | 5  | 10 | 11 | 20 | 24 | 33 | 24                | 24.3 <sup>a</sup> |                   |
| Paterson.....                              | Maximum... | 45 | 54  | 46 | 48 | 50  | 40 | 35  | 45  | 39  | 40  | 46  | 36  | 29  | 53 | 54 | 35 | 31 | 18  | 22  | 35 | 55 | 49 | 54 | 36 | 20 | 30 | 37 | 41 | 42 | 43 | 38                | 40.2              |                   |
|                                            | Minimum... | 20 | 30  | 29 | 23 | 30  | 28 | 18  | 31  | 25  | 25  | 25  | 27  | 17  | 24 | 32 | 24 | 18 | 6   | 0   | 12 | 24 | 34 | 36 | 20 | 4  | 6  | 7  | 14 | 20 | 31 | 23                | 21.4              |                   |
| Plainfield.....                            | Maximum... | 43 | 55  | 45 | 49 | 50  | 37 | 36  | 43  | 35  | 43  | 48  | 37  | 28  | 55 | 41 | 36 | 35 | 15  | 22  | 36 | 53 | 44 | 50 | 35 | 21 | 29 | 30 | 40 | 42 | 42 | 37                | 39.4              |                   |
|                                            | Minimum... | 21 | 41  | 31 | 31 | 35  | 25 | 19  | 30  | 27  | 23  | 28  | 24  | 17  | 22 | 28 | 25 | 16 | 7   | 1   | 18 | 27 | 38 | 32 | 13 | 2  | 7  | 7  | 17 | 21 | 33 | 19                | 22.1              |                   |
| Ridgefield.....                            | Maximum... | 42 | 54  | 42 | 44 | 45  | 41 | 34  | 37  | 34  | 38  | 48  | 39  | 32  | 52 | 46 | 35 | 36 | 15  | 25  | 37 | 55 | 55 | 54 | 43 | 22 | 30 | 37 | 38 | 41 | 44 | 38                | 39.8              |                   |
|                                            | Minimum... | 24 | 36  | 34 | 30 | 35  | 27 | 22  | 31  | 29  | 28  | 35  | 20  | 18  | 25 | 32 | 25 | 15 | 7   | 3   | 15 | 28 | 40 | 38 | 16 | 3  | 10 | 11 | 23 | 27 | 34 | 20                | 23.9              |                   |
| South Orange.....                          | Maximum... | 44 | 55  | 48 | 50 | 51  | 40 | 42  | 44  | 36  | 43  | 50  | 39  | 30  | 55 | 43 | 38 | 38 | 16  | 24  | 36 | 54 | 49 | 52 | 34 | 20 | 30 | 41 | 42 | 41 | 45 | 39                | 40.9              |                   |
|                                            | Minimum... | 30 | 43  | 37 | 36 | 39  | 27 | 25  | 36  | 32  | 33  | 32  |     |     |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist.

VOL. XXVI. TRENTON, N. J., FEBRUARY, 1921. No. 2.

### GENERAL SUMMARY.

From the earliest compilation of State temperature averages in 1885 to the present, there have been but four warmer Februaries than that of 1921, in New Jersey, namely, in 1890, 1891, 1909, and 1915. Normally, the temperature in the northern half of the State would be several degrees below freezing, and in the southern half, several degrees above, but this year temperatures were above freezing in all portions with notable persistence. But a scanty ice crop was harvested in extreme northern portions, and none in the central and southern districts. Frost was in the ground, but only on occasional days, and considerable plowing was done in central and southern portions of the State as opportunity offered. One very generous snow storm occurred on the 20th, and a lesser amount on the 22d, and this snow covering disappeared rapidly at the close of the month. A cold wave followed the snowstorms, and the coldest weather of the month was on the 25th, when temperatures below zero occurred in many sections of northern districts.

The weather was remarkably pleasant and afforded opportunity for many outdoor labors, and these were actively pursued. Streams and lakes were at unusually low levels, but there was a notable increase in them at the close of the month.

Storm warnings were displayed along the coast on the 10th, 11th, 16th, 17th, 19th, 20th, 21st, 23d, 26th, and 27th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 40 stations, was 34.0°, which was 4.4 above the normal. The highest temperature was 71° at Vineland on the 16th, and the lowest, 12° below zero at Culvers Lake on the 25th. The greatest daily range of temperature was 45° at Indian Mills on the 16th. The highest monthly mean was 38.4° at Cape May City, and the lowest, 29.2° at Layton.

The temperature departure from the normal for the year 1921 to date, by sections, is: The Highlands, +3.8°; Red Sandstone Plain, +3.4°; Southern Interior, +3.8°; Sea Coast, +3.8°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 38 stations, was 3.82 inches, which was 0.25 inch above the normal. The greatest monthly precipitation was 5.82 inches at Little Falls, and the lowest, 2.58 inches at Bridgeton. The average total snowfall was 13.6 inches, which was 3.4 inches above the normal: this average depth ranged from 21.0 inches in the Highlands to 6.2 inches on the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 2.50 inches at South Orange on the 20th. The average number of days on which 0.01 inch or more of precipitation fell was 10, which was 1 more than the normal.

The precipitation accumulated departure from the normal for the year 1921 to date, by sections, is: The Highlands, -0.61 inch; Red Sandstone Plain, -0.50 inch; Southern Interior, -0.85 inch; Sea Coast, -1.58 inches.

### WIND.

The prevailing wind direction was from the northwest, with an approximate velocity of 12 miles per hour, and was somewhat less than the normal. The highest wind velocity, sustained for 5 consecutive minutes, was 65 miles per hour from the north at Sandy Hook on the 20th. High winds were noted also on the 6th, 10th, 11th, 12th, 14th, 17th, 19th, 24th, and 27th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 10, which was 1 less than the normal; partly cloudy days, 8, or normal; cloudy days, 10, which was 1 more than the normal. The approximate per cent. of possible sunshine was 54, and was somewhat below the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.09 inches, which was 0.01 inch below the normal. The highest reading was 30.60 inches at Cape May City, Ridgefield, and Sandy Hook on the 19th, and the lowest, 29.36 inches at Trenton on the 11th.

The mean stage of the Delaware River at Phillipsburg was 2.5 feet, and the highest stage was 3.9 feet on the 20th. At Trenton the mean daily stage was 1.8 feet, which was 1.7 feet below the normal. The highest stage was 3.1 feet on the 28th, and the lowest, 1.1 feet on the 6th.

Dense fog occurred on the 3d, 5th, 6th, 9th, 10th, 11th, 23d, and 28th. Haze occurred on the 8th. Sleet was observed at a few stations on the 7th, 8th, 19th, and 21st, and quite generally throughout the State on the 9th, 10th, 11th, and 20th. Solar halos were observed on the 1st 3d, 4th, 10th, 21st, 25th, and 26th, and lunar halos on the 13th, 17th, 18th, and 19th.

### COMPARATIVE DATA FOR FEBRUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 23.9         | 54       | -2      | 3.93           | 5.85      | 1.44   | .....        | .....          | .....   | .....                  |
| 1886..... | 28.9         | 64       | -10     | 5.42           | 8.00      | 4.13   | .....        | .....          | .....   | .....                  |
| 1887..... | 33.9         | 69       | 6       | 5.24           | 6.74      | 4.13   | .....        | .....          | 13      | 13                     |
| 1888..... | 30.6         | 60       | -5      | 3.53           | 6.01      | 2.04   | .....        | .....          | 9       | 8                      |
| 1889..... | 27.7         | 53       | -3      | 2.49           | 3.80      | 1.65   | .....        | .....          | 9       | 8                      |
| 1890..... | 39.9         | 76       | 14      | 4.17           | 5.32      | 2.43   | .....        | .....          | 12      | 10                     |
| 1891..... | 38.0         | 71       | 1       | 5.11           | 7.20      | 3.70   | 6            | 9              | 13      | 14                     |
| 1892..... | 33.6         | 58       | 7       | 1.63           | 3.62      | 0.67   | 7            | 9              | 13      | 7                      |
| 1893..... | 30.1         | 63       | -1      | 5.73           | 8.90      | 3.14   | 7            | 8              | 13      | 11                     |
| 1894..... | 29.7         | 62       | -11     | 4.42           | 6.17      | 3.25   | 9            | 8              | 11      | 11                     |
| 1895..... | 23.6         | 57       | -12     | 1.28           | 2.34      | 0.55   | 13           | 9              | 6       | 5                      |
| 1896..... | 32.1         | 62       | -12     | 6.77           | 10.06     | 4.82   | 9            | 9              | 11      | 12                     |
| 1897..... | 32.5         | 59       | -6      | 3.61           | 6.37      | 2.38   | 8            | 10             | 10      | 8                      |
| 1898..... | 32.7         | 65       | -15     | 3.48           | 5.45      | 1.55   | 12           | 7              | 9       | 9                      |
| 1899..... | 25.8         | 60       | -17     | 6.06           | 8.77      | 3.78   | 10           | 6              | 12      | 15                     |
| 1900..... | 31.0         | 69       | -6      | 5.30           | 7.88      | 3.27   | 9            | 9              | 10      | 10                     |
| 1901..... | 25.4         | 52       | -6      | 0.94           | 1.65      | 0.69   | 15           | 9              | 4       | 4                      |
| 1902..... | 27.4         | 62       | -7      | 6.24           | 8.44      | 4.29   | 12           | 6              | 10      | 9                      |
| 1903..... | 33.7         | 70       | -16     | 4.87           | 6.60      | 3.74   | 12           | 8              | 8       | 10                     |
| 1904..... | 24.8         | 65       | -16     | 2.45           | 3.09      | 1.36   | 13           | 8              | 8       | 8                      |
| 1905..... | 23.4         | 53       | -18     | 2.53           | 3.96      | 0.70   | 14           | 7              | 7       | 7                      |
| 1906..... | 30.9         | 64       | -12     | 2.58           | 3.85      | 1.77   | 14           | 7              | 7       | 7                      |
| 1907..... | 23.6         | 55       | -22     | 2.67           | 3.90      | 1.82   | 14           | 7              | 7       | 8                      |
| 1908..... | 28.1         | 65       | -17     | 4.79           | 7.44      | 2.85   | 10           | 10             | 9       | 9                      |
| 1909..... | 37.8         | 72       | -2      | 4.96           | 6.78      | 3.55   | 6            | 10             | 12      | 12                     |
| 1910..... | 30.5         | 69       | -11     | 3.08           | 4.81      | 1.06   | 10           | 9              | 9       | 10                     |
| 1911..... | 30.9         | 67       | -12     | 2.78           | 4.06      | 1.76   | 8            | 7              | 13      | 11                     |
| 1912..... | 27.7         | 61       | -14     | 2.49           | 3.12      | 1.68   | 11           | 12             | 6       | 5                      |
| 1913..... | 30.6         | 70       | -5      | 2.49           | 3.21      | 1.48   | 16           | 6              | 6       | 7                      |
| 1914..... | 25.9         | 67       | -17     | 2.85           | 4.94      | 1.89   | 12           | 7              | 9       | 9                      |
| 1915..... | 35.7         | 75       | 2       | 5.37           | 7.28      | 2.97   | 11           | 6              | 11      | 8                      |
| 1916..... | 28.1         | 63       | -18     | 4.21           | 6.17      | 2.84   | 10           | 6              | 13      | 11                     |
| 1917..... | 28.1         | 62       | -17     | 1.95           | 2.80      | 0.92   | 10           | 9              | 9       | 11                     |
| 1918..... | 29.0         | 67       | -23     | 2.08           | 3.41      | 1.03   | 12           | 8              | 8       | 7                      |
| 1919..... | 33.6         | 65       | 4       | 3.39           | 6.48      | 1.37   | 15           | 4              | 9       | 10                     |
| 1920..... | 27.9         | 54       | -25     | 4.20           | 7.20      | 2.39   | 11           | 8              | 10      | 11                     |
| 1921..... | 34.0         | 71       | -12     | 3.81           | 5.82      | 2.58   | 10           | 8              | 10      | 10                     |



## Climatological Data for February, 1921.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       |                       | Precipitation, in inches. |                            |                       |                            | No. of days.                  |        |             |         | Prevailing direction of wind. | Observers.                |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|---------------------------|----------------------------|-----------------------|----------------------------|-------------------------------|--------|-------------|---------|-------------------------------|---------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total.                    | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation of in. or more. | Clear. | Pt. cloudy. | Cloudy. |                               |                           |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |                               |                           |
| Belvidere††                                 | Warren     | 289              | 30                       | 31.7                          | +4.6                       | 59       | 16    | -1      | 25    | 35                    | 4.13                      | +0.29                      | 1.77                  | 17.0                       | 8                             | 17     | 2           | 9       | .....                         | Samuel J. Hixson.         |
| Charlotteburg                               | Passaic    | 719              | 29                       | 30.0                          | +4.4                       | 60       | 16    | -12     | 25    | 37                    | .....                     | .....                      | .....                 | .....                      | 11                            | 13     | 10          | 5       | w.                            | George S. Briggs.         |
| Culvers Lake††                              | Sussex     | 848              | 20                       | 30.3                          | +4.1                       | 62       | 16    | -12     | 25    | 35                    | 3.18                      | +0.12                      | 1.01                  | 22.1                       | 8                             | 8      | 9           | 11      | e.                            | Brice E. Riker.           |
| Dover                                       | Morris     | 600              | 37                       | 30.3                          | +4.1                       | 62       | 16    | 2       | 25    | 33                    | 4.07                      | +0.04                      | 1.60                  | 19.5                       | 8                             | 6      | 14          | 8       | .....                         | William C. Harris.        |
| Layton                                      | Sussex     | 480              | 20                       | 29.2                          | +5.6                       | 58       | 16    | -5      | 25    | 44                    | 3.56                      | +0.82                      | 1.23                  | 29.3                       | 12                            | 11     | 6           | 11      | nw.                           | A. M. Depue.              |
| Newton                                      | Sussex     | 769              | 38                       | 29.9 <sup>a</sup>             | +3.4                       | 57       | 16    | 3       | 25    | 28                    | 3.86                      | +0.30                      | 1.56                  | 23.5                       | 9                             | 11     | 5           | 12      | sw.                           | Irving G. Kern.           |
| Phillipsburg                                | Warren     | 363              | 39                       | 31.6                          | +3.7                       | 64       | 16    | 6       | 25    | 37                    | 3.24                      | -0.40                      | 1.17                  | 16.1                       | 9                             | 11     | 5           | 12      | ne.                           | D. Wilson Smith.          |
| Sussex                                      | Sussex     | 442              | 27                       | 30.0                          | +4.6                       | 59       | 16    | -4      | 21    | 42                    | 2.69                      | -0.69                      | 1.07                  | 19.6                       | 7                             | 12     | 7           | 9       | nw.                           | Rev. W. August George     |
| Means and extremes...                       |            |                  |                          | 30.4                          | +4.3                       | 64       | 16    | -12     | 25    | 44                    | 3.53                      | +0.07                      | 1.77                  | 21.0                       | 9                             | 11     | 7           | 10      | nw.                           |                           |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |                               |                           |
| Bergen Point††                              | Hudson     | 37               | 24                       | 34.0                          | +4.6                       | 65       | 16    | 8       | 25    | 38                    | 3.25                      | -0.73                      | 1.80                  | 20.5                       | 7                             | 3      | 18          | 7       | nw.                           | William H. Mitchell.      |
| Boonton                                     | Morris     | 400              | 31                       | 30.8                          | +4.0                       | 60       | 16    | -1      | 25    | 36                    | 3.22                      | -0.75                      | 1.70                  | 16.4                       | 12                            | 18     | 5           | 5       | ne.                           | J. W. Denmers.            |
| Chatham                                     | Morris     | 185              | 17                       | 34.3                          | +3.8                       | 65       | 16    | 3       | 25    | 38                    | 4.37                      | +0.94                      | 1.87                  | 19.0                       | 14                            | 11     | 8           | 9       | .....                         | Paul Molitor, Sr.         |
| Elizabeth                                   | Union      | 45               | 42                       | 34.3                          | +3.8                       | 65       | 16    | 3       | 25    | 38                    | 5.01                      | +0.84                      | 2.20                  | 19.0                       | 9                             | 9      | 12          | 7       | nw.                           | L. B. Bonnett.            |
| Flemington                                  | Hunterdon  | 140              | 35                       | 33.6                          | +4.8                       | 65       | 16    | 0       | 25    | 40                    | 3.72                      | +0.18                      | 1.04                  | 15.0                       | 10                            | 13     | 5           | 10      | ne.                           | Hiram E. Deats.           |
| Highwood                                    | Bergen     | 90               | 33                       | 31.4                          | +3.0                       | 58       | 16    | -3      | 25    | 34                    | 4.33                      | +0.07                      | 2.14                  | 18.8                       | 7                             | 8      | 8           | 12      | nw.                           | Charles J. Bates.         |
| Jersey City                                 | Hudson     | 10               | 24                       | 35.1                          | +4.5                       | 62       | 16    | 11      | 25    | 30                    | 4.73                      | +1.01                      | 2.30                  | 14.6                       | 8                             | 8      | 11          | 9       | nw.                           | S. K. Pearson, Jr.        |
| Kearny                                      | Hudson     | 100              | 2                        |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         | nw.                           | Wm. J. Chandler, M. D.    |
| Lambertville                                | Hunterdon  | 300              | 34                       | 32.2 <sup>b</sup>             | +1.8                       | 60       | 16    | 0       | 25    | 38                    | 5.82                      | +2.35                      | 2.48                  | 14.0                       | 13                            | 7      | 9           | 12      | w.                            | Thomas R. Hunt.           |
| Little Falls                                | Passaic    | 180              | 31                       | 33.2                          | +3.6                       | 66       | 16    | 5       | 25    | 38                    | 3.78                      | -0.18                      | 1.19                  | 17.8                       | 10                            | 10     | 10          | 8       | nw.                           | Montclair Water Co.       |
| Newark                                      | Essex      | 159              | 79                       | 33.0                          | +3.9                       | 60       | 16    | 11      | 25    | 29                    | 4.94                      | +1.32                      | 2.16                  | 22.4                       | 10                            | 7      | 10          | 8       | nw.                           | Prof. William Wiener.     |
| New Brunswick                               | Middlesex  | 110              | 63                       | 34.4                          | +5.4                       | 66       | 16    | 6       | 25    | 38                    | 3.59                      | -0.03                      | 1.44                  | 9.4                        | 9                             | 12     | 10          | 6       | e.                            | N. J. Experiment Station. |
| New Milford††                               | Bergen     |                  | 2                        |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         | nw.                           | Hackensack Water Co.      |
| Paterson                                    | Passaic    | 80               | 50                       | 34.6                          | +4.4                       | 65       | 16    | 8       | 21    | 36                    | 3.95                      | -0.26                      | 1.77                  | 17.0                       | 9                             | 3      | 2           | 23      | ne.                           | Marion T. Probert.        |
| Plainfield                                  | Somerset   | 110              | 33                       | 31.4                          | +2.7                       | 60       | 16    | -3      | 25    | 35                    | 3.78                      | -0.18                      | 1.19                  | 17.8                       | 10                            | 6      | 13          | 9       | nw.                           | E. D. Pearson.            |
| Ridgefield††                                | Bergen     | 70               | 6                        | 31.7                          |                            | 60       | 16    | 3       | 25    | 31                    | 4.01                      |                            | 1.54                  | 18.2                       | 15                            | 10     | 10          | 8       | nw.                           | George P. Kirsten.        |
| Somerville                                  | Somerset   | 74               | 38                       | 35.2                          | +6.3                       | 65       | 16    | 5       | 25    | 38                    | 3.63                      | -0.15                      | 2.20                  | 25.1                       | 13                            | 8      | 9           | 11      | w.                            | Kenneth Bauer.            |
| South Orange                                | Essex      | 200              | 51                       | 32.6                          | +3.6                       | 60       | 16    | 6       | 25    | 31                    | 4.95                      | +1.02                      | 2.50                  | 19.2                       | 9                             | 11     | 10          | 7       | n.                            | Wm. H. Meeder.            |
| Woodcliff Lake††                            | Bergen     |                  | 2                        |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         | nw.                           | Hackensack Water Co.      |
| New York, N. Y.                             |            | 365              | 51                       | 34.8                          | +4.1                       | 63       | 16    | 11      | 25    | 30                    | 4.90                      | +1.16                      | 2.62                  | 13.5                       | 10                            | 4      | 11          | 13      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes...                       |            |                  |                          | 33.2                          | +4.0                       | 66       | 16    | -3      | 25    | 40                    | 4.22                      | +0.40                      | 2.50                  | 17.7                       | 10                            | 9      | 9           | 10      | nw.                           |                           |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |                               |                           |
| Bridgeton                                   | Cumberland | 30               | 40                       | 38.0                          | +4.3                       | 69       | 16    | 15      | 25    | 37                    | 2.58                      | -1.24                      | 1.60                  | 10.0                       | 5                             | 15     | 4           | 9       | w.                            | Henry A. Jorden.          |
| Burlington                                  | Burlington | 12               | 35                       | 36.2                          | +4.9                       | 69       | 16    | 9       | 25    | 41                    | 3.67                      | +0.17                      | 1.65                  | 13.1                       | 10                            | 13     | 3           | 7       | ne.                           | D. S. B. McCoy.           |
| Camp Dix                                    | Burlington | 127              | 3                        | 35.3                          |                            | 69       | 16    | 5       | 25    | 41                    | 2.86                      | .....                      | 0.89                  | .....                      | 13                            | 1      | 2           | 25      | ne.                           | U. S. Army.               |
| Clayton                                     | Gloucester | 130              | 28                       | 35.7                          | +5.0                       | 68       | 16    | 9       | 21    | 39                    | 3.41                      | -0.17                      | 1.39                  | 6.0                        | 9                             | 6      | 3           | 19      | n.                            | Marvin E. Porch.          |
| Hammonton                                   | Atlantic   | 103              | 20                       |                               |                            |          |       |         |       |                       | 3.97                      | +0.56                      | 1.40                  | 9.0                        | 9                             | 15     | 7           | 6       | w.                            | Charles M. Phillips.      |
| Hightstown                                  | Mercer     | 120              | 29                       | 33.4                          | +4.0                       | 67       | 16    | 3       | 25    | 41                    |                           |                            |                       | 8.0                        |                               | 17     | 5           | 6       | nw.                           | E. H. Savage, Jr.         |
| Imlaystown                                  | Monmouth   | 115              | 33                       | 34.2                          | +3.8                       | 68       | 16    | 6       | 25    | 40                    |                           |                            |                       |                            |                               | 14     | 7           | 7       | w.                            | Wm. R. Hendrickson.       |
| Indian Mills††                              | Burlington | 76               | 32                       | 35.4                          | +3.6                       | 70       | 16    | 2       | 25    | 45                    | 4.38                      | +0.93                      | 1.97                  | 12.0                       | 7                             | 6      | 12          | 10      | nw.                           | James M. Armstrong.       |
| Lakewood                                    | Ocean      | 54               | 17                       | 34.2                          | +4.5                       | 68       | 16    | 8       | 25    | 43                    | 5.17                      | +1.60                      | 1.92                  | 8.5                        | 8                             | 9      | 8           | 11      | ne.                           | R. W. Holman.             |
| Moorestown                                  | Burlington | 75               | 58                       | 37.2 <sup>c</sup>             | +5.9                       | 69       | 16    | 9       | 25    | 41                    |                           |                            |                       | 12.0                       |                               |        |             |         | .....                         | Stokes Seed Farms Co.     |
| Northfield                                  | Atlantic   | 25               | 14                       |                               |                            |          |       |         |       |                       | 3.05                      | +0.26                      | 1.55                  | 3.3                        | 12                            |        |             |         | .....                         | William L. Flick.         |
| Pleasantville††                             | Atlantic   | 26               | 23                       |                               |                            |          |       |         |       |                       | 3.67                      | +0.86                      | 1.90                  |                            | 10                            | 16     | 3           | 9       | .....                         | Lincoln Van Gilder.       |
| Trenton                                     | Mercer     | 190              | 49                       | 34.2                          | +3.5                       | 66       | 16    | 9       | 25    | 34                    | 3.44                      | +0.25                      | 1.70                  | 14.0                       | 10                            | 4      | 12          | 12      | nw.                           | U. S. Weather Bureau.     |
| Tuckerton                                   | Ocean      | 23               | 28                       | 37.3                          | +6.5                       | 67       | 16    | 11      | 25    | 37                    | 4.62                      | +0.86                      | 1.69                  | 4.5                        | 8                             | 13     | 5           | 10      | ne.                           | Frank R. Austin.          |
| Vineland                                    | Cumberland | 109              | 52                       | 38.2                          | +5.7                       | 71       | 16    | 11      | 21    | 41                    | 3.11                      | -0.61                      | 1.75                  | 6.0                        | 9                             | 11     | 9           | 8       | nw.                           | H. C. Himes.              |
| Woodbine                                    | Cape May   | 43               | 28                       | 37.8 <sup>a</sup>             | +6.3                       | 66       | 16†   | 12      | 25    | 35                    |                           |                            |                       |                            |                               | 12     | 3           | 13      | n.                            | W. I. Zechman.            |
| Philadelphia, Pa.                           |            | 117              | 51                       | 37.6                          | +4.8                       | 68       | 16    | 16      | 25    | 34                    | 4.40                      | +1.02                      | 2.52                  | 10.2                       | 10                            | 4      | 11          | 13      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes...                       |            |                  |                          | 35.9                          | +4.8                       | 71       | 16    | 2       | 25    | 45                    | 3.65                      | +0.31                      | 1.97                  | 8.9                        | 9                             | 11     | 6           | 11      | nw.                           |                           |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |                               |                           |
| Asbury Park                                 | Monmouth   | 22               | 32                       | 36.6                          | +5.4                       | 63       | 16    | 9       | 25    | 31                    |                           |                            |                       | 4.8                        |                               | 17     | 5           | 6       | nw.                           | Information Bureau.       |
| Atlantic City                               | Atlantic   | 16               | 48                       | 37.6                          | +4.6                       | 62       | 17    | 15      | 25    | 26                    | 3.74                      | +0.47                      | 1.65                  | 2.7                        | 9                             | 7      | 11          | 10      | nw.                           | U. S. Weather Bureau.     |
| Cape May City                               | Cape May   | 17               | 37                       | 38.4                          | +4.3                       | 60       | 17    | 20      | 25    | 22                    | 2.83                      | -0.46                      | 1.69                  | 2.6                        | 11                            | 11     | 4           | 13      | nw.                           | U. S. Weather Bureau.     |
| Long Branch                                 | Monmouth   | 25               | 14                       | 34.8                          | +4.4                       | 64       | 16    | 8       | 25    | 31                    | 3.74                      | -0.17                      | 1.80                  | 11.9                       | 11                            | 11     | 10          | 7       | nw.                           | William D. Martin, Jr.    |
| Sandy Hook                                  | Monmouth   | 22               | 23                       | 34.1                          | +3.5                       | 57       | 16    | 14      | 25    | 24                    | 3.11                      | -0.43                      | 1.44                  | 9.1                        | 10                            | 5      | 12          | 11      | w.                            | U. S. Weather Bureau.     |
| Means and extremes...                       |            |                  |                          | 36.3                          | +4.4                       | 64       | 16    | 8       | 25    | 31                    | 3.36                      | -0.15                      | 1.80                  | 6.2                        | 10                            | 10     | 8           | 10      | nw.                           |                           |
| For the State                               |            |                  |                          | 34.0                          | +4.4                       | 71       | 16    | -12     | 25    | 45                    | 3.82                      | +0.25                      | 2.50                  | 13.6                       | 10                            | 10     | 8           | 10      | nw.                           |                           |

† On other dates also.

‡ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



| Daily Precipitation for February, 1921.    |                 |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
|--------------------------------------------|-----------------|---------------|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|--------|------|-----|-----|-----|----|-----|------|------|----|----|------|--------|
| Stations.                                  | Watershed.      | Day of month. |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      | Total. |
|                                            |                 | 1             | 2   | 3   | 4 | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20     | 21   | 22  | 23  | 24  | 25 | 26  | 27   | 28   | 29 | 30 | 31   |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
| Belvidere.....                             | Delaware.....   |               | .15 |     |   |     |     | *   |     | .18 |     | .45 |     |    |    |    |    |    |    |    | 1.77   |      | .12 |     |     |    |     | .78  | .68  |    |    | 4.13 |        |
| Charlotteburg.....                         | Passaic.....    |               | .11 |     |   |     |     | *   |     | .35 |     | .50 |     |    |    |    |    |    |    |    | 1.30   |      |     |     |     |    |     | *    | 1.98 |    |    | \$   |        |
| Culvers Lake.....                          | Delaware.....   | T.            | .03 | T.  |   |     | T.  | T.  | T.  | .16 | .01 | .45 | .02 |    | T. |    |    |    |    |    | 1.01   | .05  | .09 | .01 | T.  |    |     | .35  | 1.00 |    |    | 3.18 |        |
| Dover.....                                 | Passaic.....    |               | .05 |     |   | .09 |     |     |     | .22 |     | .40 |     |    |    |    |    |    |    |    | 1.60   |      | .15 |     |     |    |     | *    | 1.56 |    |    | 4.07 |        |
| Layton.....                                | Delaware.....   | T.            | .01 |     |   |     | .03 | .02 | T.  | .13 | .04 | .56 | T.  |    |    |    |    |    |    |    | 1.23   | .04  | .20 | .01 |     |    |     | .25  | 1.04 |    |    | 3.56 |        |
| Newton.....                                | Delaware.....   | T.            | .05 |     |   |     | .05 | T.  |     | .21 | T.  | .43 | T.  |    |    |    |    |    |    |    | 1.56   | .02  | .10 | T.  |     |    |     | .32  | 1.12 |    |    | 3.86 |        |
| Phillipsburg.....                          | do.....         |               | .05 |     |   | .02 |     |     |     | .24 | .11 | .31 |     |    |    |    |    |    |    |    | 1.02   |      | .10 | T.  |     |    |     | 1.17 | .22  |    |    | 3.24 |        |
| Sussex.....                                | Hudson.....     | T.            |     |     |   |     | .02 |     |     | .20 |     | .12 |     |    |    |    |    |    |    |    | 1.04   |      | .04 |     |     |    |     | .20  | 1.07 |    |    | 2.69 |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
| Bergen Point.....                          | Coast.....      |               | .02 |     |   |     |     |     |     | .18 |     | .39 |     |    |    |    |    |    |    |    | 1.80   |      | *   |     |     |    |     | .60  | .26  |    |    | 3.25 |        |
| Boonton     .....                          | Passaic.....    | .03           | .01 | T.  |   |     | .07 |     |     | .12 | .14 | .16 | .13 |    |    |    |    |    |    |    | .35    | .43  | .05 | .03 | T.  |    |     | T.   | 1.70 |    |    | 3.22 |        |
| Chatham   .....                            | do.....         | .15           |     | .02 |   | .12 |     | T.  |     | .24 | .04 | .23 | .19 |    |    |    |    |    |    |    | .64    | .54  | .19 | .08 | .04 |    |     | .02  | 1.87 |    |    | 4.37 |        |
| Elizabeth.....                             | Coast.....      | T.            | .03 |     |   | .08 |     | T.  |     | .18 |     | .38 |     |    |    |    |    |    |    |    | 2.20   |      | .05 | .02 |     |    |     | *    | 2.07 |    |    | 5.01 |        |
| Flemington.....                            | Raritan.....    | .11           |     |     |   | .03 |     |     |     | .17 |     | .26 |     |    |    |    |    |    |    |    | 1.00   | .20  | .26 | .03 |     |    |     | .62  | 1.04 |    |    | 3.72 |        |
| Highwood.....                              | Hackensack..... | T.            | T.  |     |   | .15 | T.  | T.  |     | .25 | T.  | .43 | T.  | T. |    |    |    |    |    |    | 2.04   | .10  | T.  | T.  |     |    |     | .61  | .75  |    |    | 4.33 |        |
| Jersey City.....                           | Coast.....      |               | .01 |     |   |     | .10 | T.  |     | .20 |     | .38 |     |    |    |    |    |    |    |    | 2.30   |      | .03 | T.  |     |    |     | .50  | 1.21 |    |    | 4.73 |        |
| Kearny.....                                | Coast.....      |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
| Lambertville.....                          | Delaware.....   |               | *   |     |   |     | .04 |     |     | .08 |     | .41 |     |    |    |    |    |    |    |    | \$     |      | \$  |     |     |    |     | *    | 1.83 |    |    | \$   |        |
| Little Falls     .....                     | Passaic.....    | .04           |     |     |   | .14 |     | .01 |     | .19 | .03 | .26 | .20 |    |    |    |    |    |    |    | 1.05   | 1.33 | .03 | .03 |     |    |     | .03  | 2.48 |    |    | 5.82 |        |
| Newark**.....                              | Coast.....      |               | .03 |     |   | .02 |     |     | .06 | .17 | .21 | .25 |     |    |    |    |    |    |    |    | T.     | 2.16 |     | .05 |     |    |     | 1.72 | .27  |    |    | 4.94 |        |
| New Brunswick.....                         | Raritan.....    | T.            |     |     |   | .01 |     |     |     | .21 |     | .35 | .01 |    |    |    |    |    |    |    | 1.04   | .03  | .12 |     | T.  |    |     | .38  | 1.44 |    |    | 3.59 |        |
| New Milford.....                           | Hackensack..... |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
| Paterson.....                              | Passaic.....    |               | .02 |     |   |     | T.  | T.  |     | .26 | T.  | .38 | .03 |    |    |    |    |    |    |    | 1.45   | .02  | .02 | T.  |     |    |     | .37  | 1.40 |    |    | 3.95 |        |
| Plainfield.....                            | Raritan.....    |               | .02 |     |   | .05 |     | T.  | T.  | .20 | .01 | .35 |     |    |    |    |    |    |    |    | 1.19   |      | .10 | .01 | T.  |    |     | .90  | .95  |    |    | 3.78 |        |
| Ridgefield**.....                          | Hackensack..... |               | .02 |     |   | *   | .26 | T.  | .01 | .21 | *   | .32 | .10 |    |    |    |    |    |    |    | *      | 1.54 |     | .01 | .01 |    |     | *    | 1.53 |    |    | 4.01 |        |
| Somerville.....                            | Raritan.....    | .07           | .10 |     |   |     | .04 | .02 |     | .10 | .01 | .17 | .08 |    |    |    |    |    |    |    | 2.20   | .04  | .05 |     |     |    |     | .40  | .35  |    |    | 3.63 |        |
| South Orange.....                          | Rahway.....     |               | .03 |     |   | .04 | .09 | T.  | T.  | .27 |     | .40 |     |    |    |    |    |    |    |    | 2.50   |      | .09 | T.  |     |    |     | .83  | .70  |    |    | 4.95 |        |
| Woodcliff Lake.....                        | Hackensack..... |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
| New York, N. Y.***                         | Coast.....      |               | .01 |     |   | .09 | .02 | T.  |     | .17 | .05 | .32 |     |    |    |    |    |    |    |    | T.     | 2.62 |     | .04 | T.  |    |     | 1.22 | .36  |    |    | 4.90 |        |
| <i>The Southern Interior.</i>              |                 |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
| Bridgeton.....                             | Coast.....      |               |     |     |   | T.  |     |     |     | .20 | .03 |     |     |    |    |    |    |    |    |    | 1.60   |      | .35 |     |     |    |     | .40  |      |    |    | 2.58 |        |
| Burlington.....                            | Delaware.....   | .02           | T.  |     |   |     | .02 |     |     | .11 | .02 | .39 | T.  |    |    |    |    |    |    |    | 1.65   | .15  | .25 |     |     |    |     | .62  | .44  |    |    | 3.67 |        |
| Camp Dix     .....                         | Delaware.....   |               | .02 |     |   |     | .02 |     | .05 | .07 | .39 | .05 |     |    |    |    |    |    |    |    | .89    | .59  | .30 | .02 | T.  |    | .05 | .38  | .03  |    |    | 2.86 |        |
| Clayton.....                               | Maurice.....    | .07           | .02 | T.  |   |     |     |     |     |     | .18 | .44 | T.  |    |    |    |    |    |    |    | 1.39   | .05  | .20 | T.  |     |    |     | .03  | 1.03 |    |    | 3.41 |        |
| Hammonton.....                             | Mullica.....    | .14           |     |     |   |     |     |     | .01 | .17 | T.  | .33 |     |    |    |    |    |    |    |    | 1.40   | .14  | .40 | T.  |     |    |     | .85  | .53  |    |    | 3.97 |        |
| Hightstown.....                            | Raritan.....    | .10           |     |     |   |     | .05 |     |     | .24 | .02 | .48 | .07 |    |    |    |    |    |    |    | 2      |      | .40 |     | .05 |    |     | .55  | 1.20 |    |    | \$   |        |
| Imlaytown.....                             | Delaware.....   |               | .04 | .01 |   | .01 | .03 | .01 |     | .15 | .03 | .25 | .12 |    |    |    |    |    |    |    |        |      |     |     |     |    |     | .50  | 1.15 |    |    | \$   |        |
| Indian Mills.....                          | Mullica.....    |               |     |     |   |     |     |     |     | .22 | T.  | .40 |     |    |    |    |    |    |    |    | 1.97   |      | .58 | .03 |     |    |     | .50  | .68  |    |    | 4.38 |        |
| Lakewood.....                              | Metedeconk..... | T.            | T.  |     |   | T.  | .05 | T.  | T.  | .20 | T.  | .42 |     |    |    |    |    |    |    |    | 1.60   | .10  | .25 | 1   | T.  |    |     | .63  | 1.92 |    |    | 5.17 |        |
| Moorestown.....                            | Delaware.....   |               |     |     |   |     | .05 |     |     | .08 |     | .40 |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     | *    | 1.65 |    |    | \$   |        |
| Northfield.....                            | Coast.....      | .02           | .01 |     |   |     | .01 |     | .02 | .16 | T.  | .36 |     |    |    |    |    |    |    |    | 1.55   | .03  | .32 | .01 |     |    |     | .30  | .26  |    |    | 3.05 |        |
| Pleasantville.....                         | Coast.....      | T.            | .02 |     |   |     |     | .02 |     | .20 | .03 | .27 |     |    |    |    |    |    |    |    | 1.90   |      | .41 | .01 |     |    |     | .57  | .24  |    |    | 3.67 |        |
| Trenton***.....                            | Delaware.....   |               | .01 |     |   | .02 |     | T.  |     | .09 | .05 | .25 |     |    |    |    |    |    |    |    | T.     | 1.70 |     | .38 | .01 | T. |     | .86  | .07  |    |    | 3.44 |        |
| Tuckerton.....                             | Coast.....      |               |     |     |   |     |     |     | .06 | .28 | .02 | .23 |     |    |    |    |    |    |    |    | 1.69   | .14  | .35 |     |     |    |     | 1.20 | .55  |    |    | 4.52 |        |
| Vineland.....                              | Maurice.....    | .12           |     |     |   |     |     |     |     | .09 | .13 |     |     |    |    |    |    |    |    |    | 1.75   | .12  | .51 | .03 | T.  |    |     | *    | .36  |    |    | 3.11 |        |
| Woodbine.....                              | Coast.....      |               | .10 |     |   | .01 |     |     | .01 | .01 | .12 |     |     |    |    |    |    |    |    |    | .78    |      | .30 |     |     |    |     | .33  | \$   |    |    | \$   |        |
| Philadelphia, Pa.                          | Delaware.....   |               | .01 |     |   | .01 |     | T.  |     | .05 | .12 | .22 |     |    |    |    |    |    |    |    | 1.22   | .40  | .14 | T.  | T.  |    |     | 1.26 | .07  |    |    | 4.40 |        |
| <i>The Sea Coast.</i>                      |                 |               |     |     |   |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |        |      |     |     |     |    |     |      |      |    |    |      |        |
| Asbury Park.....                           | Coast.....      |               |     |     |   | .02 |     |     |     | .28 |     | .29 |     |    |    |    |    |    |    |    | \$ .30 |      | .02 | .01 |     |    |     | .75  |      |    |    | \$   |        |
| Atlantic City***.....                      | do.....         |               | .02 |     |   | T.  |     | T.  | .02 | .20 | .33 | .24 |     |    |    |    |    |    |    |    | T.     | 1.65 | T.  | .41 | T.  |    |     | .85  | .02  |    |    | 3.74 |        |
| Cape May City.....                         | do.....         |               | .01 | .02 |   | .01 | .04 |     |     | .26 | .10 | .20 |     |    |    |    |    |    |    |    | 1.69   | T.   | .23 |     | T.  |    |     | .36  | .01  |    |    | 2.83 |        |
| Long Branch**.....                         | do.....         |               | .04 |     |   | .05 | .01 |     |     | .29 | .12 | .49 |     |    |    |    |    |    |    |    | .67    |      | .23 | .04 |     |    |     | 1.10 | .70  |    |    | 3.74 |        |
| Sandy Hook***.....                         | do.....         |               | .01 |     |   | .03 | .01 | T.  | T.  | .17 | .11 | .34 |     |    |    |    |    |    |    |    | .92    |      | .08 | T.  | T.  |    |     | 1.26 | .18  |    |    | 3.11 |        |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
! Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
\* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

| Miscellaneous Data.   |               |          |       |         |       |                  |                 |            |       |                                            |                                            |                                     |  |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|-------------------------------------|--|
| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine                       |  |
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |  |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |                                     |  |
| Atlantic City.....    | 30.09         | 30.57    | 19    | 29.41   | 11    | 8                | 34              | ne.        | 20    | 82                                         | 75                                         | 58                                  |  |
| Cape May City.....    | 30.12         | 30.60    | 19    | 29.53   | 11    | 10               | 38              | ne.        | 20    | 82                                         | 82                                         | .....                               |  |
| Long Branch.....      |               |          |       |         |       |                  | 60              | e.         | 11    |                                            |                                            |                                     |  |
| Newark.....           |               |          |       |         |       |                  |                 |            |       | 74*                                        | 71†                                        | 56                                  |  |
| New York, N. Y.....   | 30.08         | 30.60    | 19    | 29.39   | 11    | 18               | 70              | nw.        | 14    | 72                                         | 68                                         | 50                                  |  |
| Philadelphia, Pa..... | 30.09         | 30.58    | 19    | 29.40   | 11    | 11               | 37              | ne.        | 20    | 85                                         | 83                                         | 55                                  |  |
| Defield.....          | 30.08         | 30.60    | 19    | 29.39   | 11    |                  |                 |            |       |                                            |                                            |                                     |  |
| Indy Hook.....        | 30.08         | 30.60    | 19    | 29.40   | 11    | 17               | 65              | n          | 20    | 82                                         | 81                                         | 53                                  |  |
| enton.....            | 30.08         | 30.58    | 19    | 29.36   | 11    | 12               | 49              | ne.        | 20    | 77                                         | 70                                         | 47                                  |  |



## Daily Temperatures for February, 1921.

| Stations.                                  | 1  | 2  | 3  | 4  | 5  | 6  | 7     | 8  | 9     | 10 | 11 | 12 | 13 | 14 | 15    | 16 | 17 | 18 | 19 | 20 | 21    | 22 | 23 | 24 | 25 | 26 | 27 | 28    | 29    | 30    | 31    | Mean. |
|--------------------------------------------|----|----|----|----|----|----|-------|----|-------|----|----|----|----|----|-------|----|----|----|----|----|-------|----|----|----|----|----|----|-------|-------|-------|-------|-------|
| <i>The Highlands and Kittatinny Valley</i> |    |    |    |    |    |    |       |    |       |    |    |    |    |    |       |    |    |    |    |    |       |    |    |    |    |    |    |       |       |       |       |       |
| Belvidere.....                             | 32 | 30 | 39 | 41 | 42 | 47 | 37    | 45 | 37    | 41 | 36 | 39 | 43 | 46 | 48    | 59 | 53 | 44 | 40 | 32 | 32    | 42 | 41 | 38 | 31 | 41 | 39 | 50    | ..... | ..... | 40.9  |       |
| Charlotteburg.....                         | 35 | 34 | 35 | 38 | 44 | 43 | 39    | 39 | 36    | 38 | 38 | 35 | 41 | 40 | 43    | 60 | 59 | 44 | 38 | 40 | 35    | 46 | 40 | 36 | 35 | 36 | 35 | 30    | ..... | ..... | 40.1* |       |
| Dover.....                                 | 28 | 30 | 36 | 38 | 48 | 42 | 36    | 41 | 34    | 39 | 33 | 35 | 40 | 47 | 44    | 62 | 45 | 35 | 41 | 32 | 29    | 39 | 40 | 34 | 29 | 37 | 36 | 44    | ..... | ..... | 38.4  |       |
| Layton.....                                | 9  | 14 | 26 | 14 | 29 | 30 | 23    | 24 | 23    | 33 | 32 | 24 | 25 | 26 | 20    | 29 | 31 | 21 | 15 | 22 | 30    | 43 | 40 | 39 | 39 | 39 | 38 | 48    | ..... | ..... | 39.5  |       |
| Newton.....                                | 34 | 28 | 36 | 40 | 42 | 42 | 37    | 39 | 35    | 38 | 36 | 36 | 42 | 46 | 42    | 58 | 53 | 35 | 40 | 32 | 30    | 43 | 40 | 39 | 39 | 39 | 38 | 48    | ..... | ..... | 37.2  |       |
| Phillipsburg.....                          | -1 | 11 | 25 | 9  | 22 | 33 | 20    | 20 | 21    | 32 | 31 | 21 | 16 | 27 | 16    | 22 | 35 | 20 | 12 | 24 | -2    | 14 | 25 | 18 | -5 | 1  | 33 | 31    | ..... | ..... | 39.6  |       |
| Sussex.....                                | 26 | 28 | 34 | 38 | 40 | 40 | 37    | 38 | 34    | 38 | 35 | 34 | 40 | 43 | 41    | 57 | 52 | 35 | 38 | 33 | 25    | 33 | 38 | 37 | 28 | 37 | 46 | ..... | ..... | ..... | 22.6* |       |
| <i>The Red Sandstone Plain.</i>            |    |    |    |    |    |    |       |    |       |    |    |    |    |    |       |    |    |    |    |    |       |    |    |    |    |    |    |       |       |       |       |       |
| Bergen Point.....                          | 32 | 38 | 41 | 39 | 44 | 47 | 41    | 43 | 40    | 43 | 42 | 40 | 45 | 53 | 44    | 65 | 58 | 39 | 44 | 37 | 32    | 37 | 43 | 37 | 30 | 40 | 40 | 48    | ..... | ..... | 42.2  |       |
| Boonton§§.....                             | 16 | 22 | 28 | 24 | 31 | 27 | 28    | 32 | 27    | 34 | 32 | 28 | 27 | 31 | 23    | 27 | 39 | 24 | 22 | 22 | 22    | 24 | 23 | 22 | 8  | 14 | 35 | 32    | ..... | ..... | 25.9  |       |
| Elizabeth.....                             | 37 | 34 | 33 | 42 | 48 | 46 | 40    | 44 | 40    | 42 | 38 | 38 | 45 | 52 | 45    | 60 | 55 | 38 | 42 | 34 | 30    | 45 | 44 | 34 | 30 | 40 | 40 | 48    | ..... | ..... | 41.6  |       |
| Flemington.....                            | 11 | 13 | 23 | 16 | 17 | 32 | 22    | 27 | 22    | 27 | 32 | 26 | 21 | 27 | 20    | 24 | 28 | 32 | 15 | 21 | 4     | 15 | 19 | 27 | -1 | 5  | 15 | 34    | ..... | ..... | 20.1  |       |
| Highwood.....                              | 33 | 37 | 40 | 41 | 45 | 49 | 41    | 45 | 39    | 42 | 39 | 42 | 46 | 52 | 46    | 65 | 61 | 49 | 44 | 39 | 29    | 38 | 43 | 40 | 30 | 42 | 38 | 49    | ..... | ..... | 43.0  |       |
| Jersey City.....                           | 16 | 20 | 28 | 23 | 29 | 38 | 26    | 30 | 27    | 33 | 34 | 27 | 30 | 30 | 21    | 27 | 29 | 24 | 19 | 26 | 7     | 25 | 19 | 28 | 3  | 11 | 36 | 36    | ..... | ..... | 25.6  |       |
| Kearny.....                                | 33 | 32 | 41 | 45 | 46 | 49 | 42    | 42 | 36    | 40 | 37 | 40 | 46 | 51 | 45    | 65 | 58 | 45 | 44 | 36 | 29    | 43 | 44 | 39 | 33 | 38 | 38 | 51    | ..... | ..... | 42.4  |       |
| Lambertville.....                          | 14 | 19 | 27 | 22 | 28 | 38 | 25    | 35 | 27    | 34 | 33 | 29 | 26 | 30 | 23    | 25 | 45 | 24 | 19 | 27 | 7     | 20 | 18 | 26 | 0  | 5  | 34 | 36    | ..... | ..... | 24.9  |       |
| Little Falls.....                          | 30 | 36 | 38 | 38 | 44 | 44 | 39    | 38 | 38    | 41 | 38 | 37 | 42 | 48 | 40    | 58 | 55 | 36 | 42 | 36 | 29    | 35 | 40 | 34 | 27 | 39 | 39 | 43    | ..... | ..... | 39.4  |       |
| Newark.....                                | 9  | 17 | 29 | 20 | 29 | 33 | 26    | 26 | 23    | 31 | 32 | 26 | 23 | 29 | 20    | 29 | 36 | 23 | 17 | 23 | ..... | 20 | 20 | 20 | -3 | 5  | 36 | 36    | ..... | ..... | 41.7  |       |
| New Brunswick.....                         | 31 | 40 | 40 | 40 | 45 | 48 | 40    | 45 | 40    | 43 | 41 | 38 | 46 | 50 | 40    | 62 | 58 | 42 | 41 | 37 | 30    | 37 | 41 | 38 | 28 | 40 | 40 | 46    | ..... | ..... | 28.5  |       |
| Paterson.....                              | 18 | 25 | 30 | 27 | 35 | 37 | 33    | 33 | 30    | 36 | 34 | 28 | 30 | 35 | 25    | 32 | 40 | 25 | 24 | 25 | 12    | 26 | 27 | 26 | 11 | 21 | 36 | 37    | ..... | ..... | ..... |       |
| Plainfield.....                            | 40 | 31 | 38 | 39 | 42 | 45 | 46    | 45 | 40    | 41 | 39 | 38 | 40 | 49 | ..... | 60 | 58 | 49 | 38 | 37 | 27    | 33 | 40 | 38 | 26 | 40 | 38 | 43    | ..... | ..... | 40.7* |       |
| Ridgefield.....                            | 15 | 20 | 27 | 23 | 28 | 30 | ..... | 23 | 27    | 33 | 33 | 28 | 23 | 29 | ..... | 22 | 45 | 23 | 17 | 24 | 8     | 21 | 19 | 24 | 0  | 10 | 28 | 34    | ..... | ..... | 23.6* |       |
| Somerville.....                            | 28 | 37 | 40 | 40 | 44 | 45 | 41    | 41 | 39    | 43 | 37 | 39 | 44 | 53 | 45    | 66 | 58 | 39 | 42 | 28 | 33    | 43 | 43 | 31 | 31 | 40 | 40 | 48    | ..... | ..... | 41.4  |       |
| South Orange.....                          | 14 | 19 | 27 | 20 | 28 | 36 | 27    | 32 | ..... | 34 | 34 | 28 | 27 | 31 | 22    | 28 | 37 | 25 | 20 | 26 | 12    | 21 | 22 | 30 | 5  | 12 | 20 | 36    | ..... | ..... | 24.9* |       |
| Trenton.....                               | 32 | 36 | 33 | 40 | 44 | 47 | 40    | 40 | 37    | 40 | 34 | 34 | 43 | 45 | 44    | 60 | 54 | 36 | 41 | 35 | 26    | 35 | 34 | 32 | 29 | 39 | 38 | 44    | ..... | ..... | 39.4  |       |
| Woodbine.....                              | 18 | 24 | 31 | 28 | 33 | 37 | 32    | 26 | 27    | 34 | 32 | 26 | 28 | 24 | 31    | 32 | 24 | 24 | 23 | 15 | 21    | 27 | 16 | 11 | 21 | 37 | 37 | ..... | ..... | 26.7  |       |       |
| Yonkers.....                               | 31 | 35 | 41 | 40 | 48 | 46 | 46    | 42 | 40    | 42 | 40 | 37 | 43 | 51 | 44    | 66 | 65 | 52 | 42 | 39 | 28    | 38 | 43 | 40 | 29 | 41 | 40 | 46    | ..... | ..... | 42.7  |       |
| Asbury Park.....                           | 15 | 21 | 29 | 25 | 24 | 38 | 27    | 32 | 27    | 34 | 33 | 28 | 27 | 29 | 22    | 28 | 47 | 24 | 20 | 25 | 12    | 23 | 18 | 28 | 6  | 13 | 36 | 36    | ..... | ..... | 26.0  |       |
| Barnegat.....                              | 34 | 35 | 40 | 41 | 42 | 48 | 43    | 44 | 40    | 42 | 39 | 39 | 44 | 51 | 46    | 65 | 57 | 46 | 46 | 37 | 32    | 42 | 43 | 40 | 32 | 40 | 38 | 48    | ..... | ..... | 42.6  |       |
| Camden.....                                | 15 | 22 | 30 | 24 | 30 | 38 | 28    | 31 | 27    | 35 | 34 | 27 | 29 | 32 | 22    | 29 | 45 | 25 | 21 | 23 | 8     | 23 | 25 | 26 | 9  | 15 | 35 | 37    | ..... | ..... | 26.6  |       |
| Camden.....                                | 15 | 22 | 30 | 24 | 30 | 38 | 28    | 31 | 27    | 35 | 34 | 27 | 29 | 32 | 22    | 29 | 45 | 25 | 21 | 23 | 8     | 23 | 25 | 26 | 9  | 15 | 35 | 37    | ..... | ..... | 40.2  |       |
| Camden.....                                | 31 | 35 | 40 | 41 | 42 | 48 | 43    | 44 | 40    | 42 | 39 | 39 | 44 | 51 | 46    | 65 | 57 | 46 | 46 | 37 | 32    | 42 | 43 | 40 | 32 | 40 | 38 | 48    | ..... | ..... | 40.2  |       |
| Camden.....                                | 15 | 22 | 30 | 24 | 30 | 38 | 28    | 31 | 27    | 35 | 34 | 27 | 29 | 32 | 22    | 29 | 45 | 25 | 21 | 23 | 8     | 23 | 25 | 26 | 9  | 15 | 35 | 37    | ..... | ..... | 22.5  |       |
| Camden.....                                | 14 | 17 | 26 | 19 | 26 | 29 | 22    | 28 | 24    | 34 | 32 | 27 | 22 | 28 | 24    | 30 | 25 | 37 | 20 | 25 | 7     | 23 | 18 | 19 | 3  | 6  | 34 | 34    | ..... | ..... | 39.8  |       |
| Camden.....                                | 29 | 35 | 38 | 38 | 45 | 45 | 45    | 39 | 39    | 42 | 36 | 37 | 43 | 48 | 41    | 60 | 55 | 36 | 41 | 35 | 27    | 38 | 44 | 38 | 28 | 38 | 39 | 44    | ..... | ..... | 23.6  |       |
| Camden.....                                | 11 | 18 | 28 | 21 | 30 | 31 | 27    | 24 | 24    | 33 | 31 | 26 | 26 | 28 | 20    | 29 | 32 | 23 | 18 | 19 | 12    | 23 | 24 | 14 | 3  | 13 | 35 | 37    | ..... | ..... | 43.9  |       |
| Camden.....                                | 38 | 36 | 40 | 45 | 51 | 47 | 38    | 46 | 42    | 43 | 40 | 38 | 45 | 50 | 43    | 65 | 60 | 54 | 45 | 34 | 35    | 44 | 46 | 43 | 30 | 43 | 39 | 48    | ..... | ..... | 26.6* |       |
| Camden.....                                | 17 | 21 | 29 | 24 | 28 | 28 | 26    | 33 | 28    | 34 | 33 | 29 | 41 | 42 | 37    | 36 | 42 | 49 | 42 | 60 | 53    | 42 | 39 | 34 | 28 | 37 | 41 | 36    | 31    | 38    | 38    | 40.0  |
| Camden.....                                | 29 | 35 | 39 | 38 | 43 | 44 | 39    | 40 | 41    | 42 | 37 | 36 | 42 | 49 | 42    | 60 | 53 | 42 | 39 | 34 | 28    | 37 | 41 | 36 | 31 | 38 | 38 | 46    | ..... | ..... | 25.1  |       |
| Camden.....                                | 15 | 22 | 28 | 33 | 32 | 34 | 27    | 27 | 27    | 27 | 27 | 27 | 27 | 27 | 27    | 27 | 27 | 27 | 27 | 27 | 27    | 27 | 27 | 27 | 27 | 27 | 27 | 27    | ..... | ..... | 41.6  |       |
| Camden.....                                | 34 | 36 | 39 | 41 | 50 | 45 | 41    | 41 | 42    | 46 | 42 | 38 | 43 | 50 | 42    | 63 | 56 | 36 | 41 | 37 | 32    | 38 | 40 | 36 | 29 | 40 | 40 | 46    | ..... | ..... | 28.0  |       |
| Camden.....                                | 21 | 29 | 29 | 29 | 38 | 37 | 34    | 32 | 32    | 36 | 32 | 28 | 29 | 29 | 24    | 33 | 33 | 24 | 24 | 20 | 15    | 27 | 27 | 16 | 11 | 21 | 36 | 38    | ..... | ..... | ..... |       |
| <i>The Southern Interior.</i>              |    |    |    |    |    |    |       |    |       |    |    |    |    |    |       |    |    |    |    |    |       |    |    |    |    |    |    |       |       |       |       |       |
| Bridgeton.....                             | 34 | 40 | 46 | 52 | 59 | 54 | 46    | 45 | 42    | 42 | 45 | 42 | 48 | 62 | 47    | 69 | 63 | 54 | 44 | 37 | 30    | 42 | 47 | 40 | 33 | 45 | 47 | ..... | ..... | 46.8  |       |       |
| Burlington.....                            | 20 | 26 | 32 | 34 | 30 | 39 | 28    | 32 | 30    | 35 | 38 | 30 | 27 | 32 | 25    | 32 | 49 | 25 | 32 | 24 | 16    | 25 | 26 | 40 | 15 | 22 | 36 | 36    | ..... | ..... | 29.3  |       |
| Camp Dix.....                              | 34 | 36 | 42 | 49 | 55 | 50 | 45    | 46 | 40    | 44 | 42 | 41 | 45 | 55 | 47    | 69 | 64 | 53 | 44 | 40 | 30    | 40 | 47 | 38 | 31 | 46 | 41 | 49    | ..... | ..... | 45.1  |       |
| Clayton.....                               | 17 | 23 | 30 | 26 | 27 | 38 | 27    | 32 | 29    | 38 | 36 | 29 | 27 | 30 | 24    | 28 | 48 | 24 | 23 | 28 | 11    | 24 | 24 | 28 | 9  | 17 | 34 | 35    | ..... | ..... | 27.4  |       |
| Clayton.....                               | 33 | 41 | 41 | 46 | 60 | 55 | 48    | 45 | 42    | 43 | 41 | 40 | 44 | 57 | 46    | 69 | 67 | 56 | 43 | 43 | 33    | 39 | 41 | 38 | 30 | 42 | 43 | 47    | ..... | ..... | 45.5  |       |
| Clayton.....                               | 14 | 21 | 30 | 23 | 24 | 36 | 23    | 30 | 25    | 30 | 35 | 29 | 24 | 28 | 19    | 28 | 48 | 24 | 23 | 18 | 26    | 9  | 23 | 22 | 29 | 5  | 12 | 35    | 35    | ..... | ..... | 25.1  |
| Clayton.....                               | 33 | 38 | 45 | 48 | 58 | 51 | 44    | 43 | 44    | 41 | 43 | 41 | 45 | 58 | 46    | 68 | 62 | 44 | 43 | 38 | 38    | 40 | 43 | 38 | 33 | 42 | 41 | 49    | ..... | ..... | 44.9  |       |
| Clayton.....                               | 17 | 26 | 29 | 26 | 29 | 38 |       |    |       |    |    |    |    |    |       |    |    |    |    |    |       |    |    |    |    |    |    |       |       |       |       |       |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist.

VOL. XXVI. TRENTON, N. J., MARCH, 1921. No. 3.

### GENERAL SUMMARY.

The one outstanding feature of the weather conditions during March, 1921, in New Jersey, was the remarkably high temperature which prevailed almost without interruption. Every day was either of normal or in excess of normal warmth, until the 29th and 30th, when a cold wave occurred. Many days were more than twenty degrees warmer than normal, with the result that vegetation made a very early start. Nearly all orchard fruits were in bloom when the cold wave occurred at the close of the month, with the result that there was serious damage. The State mean temperature, 49°, was 1.5° higher than the highest record heretofore; was nearly 20° warmer than the coldest March on record; and was 10° warmer than normal. Moisture, wind and sunshine were relatively normal, except that the wind coming from the southerly quadrant was unusual for March.

The cold wave which swept over the State on the afternoon of the 28th, was attended by a notable drop in temperature, amounting to 55° or more in 18 hours, and for a part of the time was at the rate of 20° in 20 minutes.

A tornado of fairly well developed form swept over a portion of the County of Somerset and city of Somerville, and did considerable material damage, attendant upon the sudden change of the 28th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 39 stations was 49.1°, which was 10.3° above the normal. The highest temperature was 92° at Woodbine on the 27th, and the lowest, 9° at Culvers Lake on the 30th. The highest monthly mean temperature was 55.0° at Vineland, and the lowest, 44.2° at Charlotteburg. The greatest daily range of temperature was 52° at Newark on the 28th. The temperature departure from the normal for the year 1921 to date, by sections, is: The Highlands, +5.8°; Red Sandstone Plain, +5.6°; Southern Interior, +6.4°; Sea Coast, +5.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations was 3.03 inches, which was 0.86 inch below the normal. The mean total snowfall was trace, which was 5.9 inch below the normal. The greatest monthly precipitation was 4.65 inches at Dover, and the least, 1.80 inches at Somerville. The greatest amount of precipitation in any 24 consecutive hours was 1.73 inches at Charlotteburg on the 24th. The mean of the number of days on which 0.01 inch or more of precipitation occurred was 11, which was normal. The precipitation accumulated departure from the normal for the year 1921 to date, by sections, is: The Highlands, -0.85 inch; Red Sandstone Plain, -1.63 inches; Southern Interior, -1.54 inches; Sea Coast, -3.02 inches.

### WIND.

The prevailing wind direction was from the south, with an approximate velocity of 12 miles per hour, which was about normal. The highest wind velocity, sustained for 5 consecutive minutes, was 70 miles per hour from the northwest on the 28th at Long Branch. High winds were also reported on the 9th, and 21st.

### SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 14, which was normal; partly cloudy, 10, which was 2 more than the normal; cloudy, 7, which was 2 less than the normal. The mean percent of possible sunshine approximated 64, and was 5 percent above the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Trenton was 4.9 feet, which was 1.0 foot above the normal; the highest stage was 9.4 feet on the 11th.

The mean atmospheric pressure, reduced to sea level, was 30.17 inches, which was 0.16 inch above the normal. The highest reading was 30.64 inches at Ridgefield on the 23d, and the lowest, 29.67 inches at Trenton on the 9th. Dense fog was reported on the 3d, 7th, 8th, 9th, 12th, 13th, 14th, 15th, 16th, 26th, 27th, 28th, and 31st. Sleet occurred on the 5th, 28th, and 29th, and hail on the 5th and 28th. Solar halos were observed on the 10th, 12th, 14th, 17th, 19th, 22d, 27th, and 28th, and lunar halos on the 15th, 16th, 18th, 20th, 21st, and 25th. Thunderstorms occurred on the 2d, 4th, 8th, 9th, 16th, 19th, 21st, 26th, and 28th.

### COMPARATIVE DATA FOR MARCH.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.4         | 66       | 2       | 1.10           | 2.29      | 0.23   | .....        | .....          | .....   | .....                  |
| 1886..... | 37.7         | 70       | 9       | 3.70           | 5.27      | 2.59   | .....        | .....          | .....   | .....                  |
| 1887..... | 37.7         | 61       | 8       | 3.34           | 5.45      | 2.19   | .....        | .....          | 13      | 10                     |
| 1888..... | 32.8         | 72       | 0       | 5.71           | 8.22      | 3.75   | .....        | .....          | 12      | 11                     |
| 1889..... | 40.5         | 67       | 19      | 3.79           | 6.49      | 1.98   | .....        | .....          | 13      | 8                      |
| 1890..... | 37.6         | 78       | 0       | 6.08           | 7.92      | 4.14   | .....        | .....          | 13      | 14                     |
| 1891..... | 37.2         | 68       | 4       | 5.06           | 8.02      | 2.05   | 8            | 10             | 13      | 12                     |
| 1892..... | 34.4         | 64       | 6       | 4.75           | 7.21      | 3.11   | 10           | 12             | 9       | 9                      |
| 1893..... | 37.0         | 68       | 6       | 3.73           | 6.26      | 2.36   | 10           | 10             | 11      | 10                     |
| 1894..... | 44.2         | 83       | 12      | 1.77           | 2.65      | 1.09   | 12           | 11             | 8       | 10                     |
| 1895..... | 36.7         | 72       | 7       | 3.16           | 4.66      | 1.77   | 12           | 8              | 11      | 10                     |
| 1896..... | 34.0         | 69       | -8      | 5.34           | 7.38      | 3.14   | 13           | 8              | 10      | 11                     |
| 1897..... | 40.0         | 77       | 18      | 2.78           | 4.32      | 1.55   | 11           | 9              | 11      | 10                     |
| 1898..... | 45.1         | 77       | 16      | 3.33           | 4.25      | 2.56   | 9            | 10             | 12      | 12                     |
| 1899..... | 38.6         | 73       | 13      | 6.54           | 9.58      | 3.45   | 7            | 10             | 14      | 13                     |
| 1900..... | 35.6         | 67       | -9      | 3.51           | 4.96      | 2.48   | 12           | 12             | 7       | 10                     |
| 1901..... | 39.2         | 75       | -8      | 4.64           | 8.07      | 2.40   | 9            | 10             | 12      | 12                     |
| 1902..... | 43.9         | 77       | 0       | 4.34           | 7.20      | 3.16   | 12           | 10             | 9       | 11                     |
| 1903..... | 47.6         | 79       | 13      | 5.13           | 8.53      | 3.60   | 11           | 8              | 12      | 10                     |
| 1904..... | 37.2         | 72       | 1       | 3.43           | 4.76      | 2.02   | 11           | 8              | 12      | 13                     |
| 1905..... | 39.8         | 87       | -7      | 3.95           | 5.06      | 2.80   | 14           | 8              | 9       | 12                     |
| 1906..... | 34.4         | 62       | -15     | 5.09           | 6.77      | 2.91   | 10           | 9              | 12      | 11                     |
| 1907..... | 41.2         | 88       | -11     | 3.04           | 4.38      | 1.81   | 13           | 10             | 8       | 10                     |
| 1908..... | 41.8         | 89       | 7       | 2.80           | 4.92      | 1.06   | 11           | 9              | 11      | 12                     |
| 1909..... | 38.3         | 74       | -6      | 3.48           | 4.66      | 2.31   | 12           | 10             | 9       | 13                     |
| 1910..... | 44.5         | 88       | 10      | 1.22           | 2.36      | 0.29   | 14           | 10             | 7       | 6                      |
| 1911..... | 37.6         | 76       | 3       | 3.38           | 4.50      | 2.64   | 10           | 12             | 9       | 11                     |
| 1912..... | 36.9         | 72       | 3       | 7.61           | 9.61      | 5.95   | 9            | 11             | 11      | 14                     |
| 1913..... | 44.8         | 79       | -1      | 5.15           | 7.73      | 2.47   | 10           | 9              | 12      | 12                     |
| 1914..... | 35.4         | 75       | -6      | 3.65           | 6.45      | 2.02   | 13           | 10             | 8       | 10                     |
| 1915..... | 36.1         | 63       | 6       | 1.13           | 1.65      | 0.58   | 20           | 7              | 4       | 3                      |
| 1916..... | 31.7         | 71       | -9      | 3.48           | 4.96      | 2.38   | 13           | 8              | 10      | 12                     |
| 1917..... | 38.2         | 72       | 0       | 4.65           | 7.14      | 2.28   | 12           | 8              | 11      | 13                     |
| 1918..... | 41.8         | 82       | 0       | 2.06           | 3.76      | 0.99   | 17           | 7              | 7       | 9                      |
| 1919..... | 43.2         | 77       | 12      | 5.32           | 7.40      | 3.77   | 14           | 7              | 10      | 13                     |
| 1920..... | 39.4         | 79       | -8      | 3.80           | 5.36      | 2.29   | 17           | 5              | 9       | 10                     |
| 1921..... | 49.1         | 92       | 9       | 3.03           | 4.65      | 1.80   | 14           | 10             | 7       | 11                     |



## Climatological Data for March, 1921.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       |                       | Precipitation, in inches. |                            |                       |                            | No. of days.                  |        |             |         | Observers. |                               |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|---------------------------|----------------------------|-----------------------|----------------------------|-------------------------------|--------|-------------|---------|------------|-------------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total.                    | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation of in. or more. | Clear. | Pt. cloudy. | Cloudy. |            | Prevailing direction of wind. |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |            |                               |
| Belvidere††                                 | Warren     | 289              | 30                       | 48.1                          | +10.0                      | 84       | 28    | 20      | 30    | 46                    | 3.40                      | -0.45                      | 0.83                  | 0                          | 10                            | 19     | 5           | 7       | .....      | Samuel J. Hixson.             |
| Charlotteburg                               | Passaic    | 719              | 29                       | 44.2                          | +8.4                       | 75       | 21    | 11      | 30    | 49                    | 3.76                      | -0.44                      | 1.73                  | 0                          | 9                             | 16     | 12          | 3       | nw.        | George S. Briggs.             |
| Culvers Lake††                              | Sussex     | 848              | 20                       | 45.8                          | +10.6                      | 81       | 21†   | 18      | 9     | 30                    | 2.92                      | -0.55                      | 0.80                  | 0.2                        | 16                            | 12     | 12          | 7       | .....      | Brice E. Riker.               |
| Dover                                       | Morris     | 600              | 37                       | 45.84                         | +10.6                      | 81       | 21†   | 9       | 30    | 47                    | 4.65                      | +0.66                      | 1.62                  | 0                          | 15                            | 7      | 17          | 7       | .....      | William C. Harris.            |
| Layton                                      | Sussex     | 480              | 20                       | 45.0                          | +9.4                       | 82       | 21†   | 13      | 30    | 47                    | 3.53                      | +0.16                      | 0.76                  | 0                          | 15                            | 11     | 10          | 10      | s.         | A. M. Depue.                  |
| Newtown                                     | Sussex     | 769              | 38                       | 45.8                          | +10.3                      | 81       | 21†   | 20      | 5†    | 43                    | 2.49                      | -1.08                      | 0.76                  | 0                          | 16                            | 10     | 11          | 10      | sw.        | Irving G. Kern.               |
| Phillipsburg                                | Warren     | 363              | 39                       | 45.7                          | +9.4                       | 81       | 28    | 15      | 30    | 45                    | 3.13                      | -0.46                      | 0.75                  | 0                          | 15                            | 14     | 10          | 7       | sw.        | Rev. W. August George         |
| Sussex                                      | Sussex     | 442              | 27                       | 45.7                          | +9.4                       | 81       | 28    | 15      | 30    | 45                    | 3.13                      | -0.46                      | 0.75                  | 0                          | 15                            | 14     | 10          | 7       | sw.        |                               |
| Means and extremes                          |            |                  |                          | 45.8                          | +9.7                       | 84       | 28    | 9       | 30    | 49                    | 3.41                      | -0.24                      | 1.73                  | T.                         | 14                            | 13     | 11          | 7       | sw.        |                               |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |            |                               |
| Bergen Point††                              | Hudson     | 37               | 24                       | 48.3                          | +8.8                       | 85       | 21†   | 25      | 29    | 46                    | 2.65                      | -1.32                      | 0.71                  | 0                          | 7                             | 7      | 19          | 5       | nw.        | William H. Mitchell.          |
| Boonton                                     | Morris     | 400              | 31                       | 45.4                          | +9.5                       | 80       | 28    | 18      | 30    | 43                    | 3.65                      | -0.29                      | 1.61                  | 0                          | 11                            | 23     | 4           | 4       | sw.        | J. W. Demmers.                |
| Chatham                                     | Morris     | 185              | 17                       | 47.4                          | +8.6                       | 86       | 21    | 23      | 29†   | 39                    | 2.75                      | -0.99                      | 0.95                  | 0                          | 10                            | 13     | 11          | 7       | .....      | Paul Molitor, Sr.             |
| Elizabeth                                   | Union      | 45               | 42                       | 50.0                          | +11.2                      | 86       | 21    | 23      | 29†   | 39                    | 2.55                      | -1.67                      | 0.76                  | 0                          | 9                             | 10     | 15          | 6       | sw.        | L. B. Bonnett.                |
| Flemington                                  | Hunterdon  | 140              | 35                       | 49.9                          | +9.8                       | 84       | 21    | 21      | 30    | 38                    | .....                     | .....                      | .....                 | T.                         | .....                         | .....  | .....       | .....   | nw.        | Hiram E. Deats.               |
| Highwood                                    | Bergen     | 90               | 33                       | 46.7                          | +9.7                       | 84       | 21    | 20      | 30    | 40                    | 3.08                      | -1.10                      | 0.96                  | T.                         | 13                            | 9      | 12          | 10      | sw.        | Charles J. Bates.             |
| Jersey City                                 | Hudson     | 10               | 24                       | 49.8                          | +10.6                      | 85       | 21    | 27      | 4†    | 41                    | 2.39                      | -1.76                      | 0.75                  | T.                         | 8                             | 14     | 11          | 6       | s.         | S. K. Pearson, Jr.            |
| Kearny                                      | Hudson     | 100              | 2                        | 49.8                          | +10.6                      | 86       | 28    | 25      | 29    | 50                    | 2.40                      | .....                      | 0.86                  | 0                          | 9                             | 10     | 12          | 9       | sw.        | Wm. J. Chandler, M. D.        |
| Lambertville                                | Hunterdon  | 300              | 34                       | 49.0                          | +9.6                       | 82       | 21    | 21      | 30    | 38                    | .....                     | .....                      | .....                 | 0                          | .....                         | .....  | .....       | .....   | w.         | Thomas R. Hunt.               |
| Little Falls                                | Passaic    | 180              | 18                       | 48.6                          | +10.6                      | 83       | 21†   | 23      | 30    | 43                    | 3.58                      | -0.01                      | 1.32                  | 0                          | 12                            | 8      | 16          | 7       | nw.        | Montclair Water Co.           |
| Newark                                      | Essex      | 159              | 79                       | 48.4                          | +9.4                       | 84       | 21†   | 27      | 4†    | 52                    | 4.60                      | +0.73                      | 1.25                  | 0                          | 14                            | 9      | 14          | 8       | sw.        | Prof. William Wiener.         |
| New Brunswick                               | Middlesex  | 110              | 68                       | 50.0                          | +10.0                      | 84       | 21    | 24      | 5†    | 37                    | 2.28                      | -1.53                      | 0.63                  | T.                         | 8                             | 17     | 9           | 5       | w.         | N. J. Experiment Station.     |
| New Milford††                               | Bergen     | .....            | 2                        | .....                         | .....                      | 90       | 21    | .....   | 30    | 42                    | 2.71                      | -1.67                      | 0.81                  | 0                          | 10                            | 7      | 0           | 24      | nw.        | Hackensack Water Co.          |
| Paterson                                    | Passaic    | 80               | 50                       | 49.5                          | +10.7                      | 90       | 21    | 25      | 30    | 42                    | 2.71                      | -1.67                      | 0.81                  | 0                          | 10                            | 7      | 0           | 24      | nw.        | Marion T. Probert.            |
| Plainfield                                  | Somerset   | 110              | 33                       | 47.4                          | +8.6                       | 86       | 21    | 20      | 30    | 45                    | 2.34                      | -1.93                      | 0.68                  | T.                         | 11                            | 11     | 15          | 5       | w.         | E. D. Pearson.                |
| Ridgefield††                                | Bergen     | 70               | 6                        | 46.6                          | .....                      | 84       | 21    | 23      | 4†    | 51                    | 2.74                      | .....                      | 0.78                  | 0                          | 15                            | 12     | 13          | 6       | s.         | George P. Kirsten.            |
| Somerville                                  | Somerset   | 74               | 38                       | 50.0                          | +11.8                      | 85       | 21    | 22      | 19†   | 36                    | 1.80                      | -2.16                      | 0.49                  | 0                          | 8                             | 11     | 10          | 10      | w.         | Keuneth Bauer.                |
| South Orange                                | Essex      | 200              | 51                       | 47.8                          | +10.7                      | 83       | 21    | 25      | 5†    | 46                    | 2.87                      | -0.99                      | 0.88                  | 0                          | 13                            | 13     | 12          | 6       | w.         | Wm. H. Meeder.                |
| Woodcliff Lake††                            | Bergen     | .....            | 2                        | .....                         | .....                      | 80       | 21    | .....   | 29    | 44                    | 2.21                      | -1.89                      | 0.61                  | T.                         | 10                            | 8      | 15          | 8       | s.         | Hackensack Water Co.          |
| New York, N. Y.                             |            | 365              | 51                       | 48.3                          | +10.8                      | 80       | 21    | 25      | 29    | 44                    | 2.21                      | -1.89                      | 0.61                  | T.                         | 10                            | 8      | 15          | 8       | s.         | U. S. Weather Bureau.         |
| Means and extremes                          |            |                  |                          | 48.6                          | +10.1                      | 90       | 21    | 18      | 30    | 52                    | 2.83                      | -1.13                      | 1.61                  | T.                         | 11                            | 12     | 11          | 8       | w.         |                               |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |            |                               |
| Bridgeton                                   | Cumberland | 30               | 40                       | 53.8                          | +11.5                      | 85       | 21†   | 25      | 29    | 33                    | 3.42                      | -0.76                      | 1.30                  | T.                         | 8                             | 20     | 6           | 5       | sw.        | Henry A. Jorden.              |
| Burlington                                  | Burlington | 12               | 35                       | 52.8                          | +12.4                      | 84       | 21†   | 25      | 29    | 39                    | 2.55                      | -1.14                      | 0.75                  | T.                         | 13                            | 22     | 3           | 6       | sw.        | D. S. B. McCoy.               |
| Camp Dix                                    | Burlington | 127              | 3                        | 51.8                          | +10.9                      | 83†      | 21    | 22      | 30    | 39†                   | 3.64                      | -0.82                      | 0.82                  | 0                          | 12                            | 6      | 8           | 17      | s.         | U. S. Army.                   |
| Clayton                                     | Gloucester | 130              | 28                       | 52.6                          | +10.9                      | 86       | 26    | 21      | 5     | 40                    | 2.77                      | -0.81                      | 0.97                  | T.                         | 9                             | 8      | 5           | 18      | s.         | Marvin E. Porch.              |
| Hammonton                                   | Atlantic   | 103              | 20                       | .....                         | .....                      | 83       | 21†   | .....   | 30    | 36                    | 3.57                      | -0.02                      | 1.10                  | 0                          | 8                             | 26     | 0           | 5       | s.         | Charles M. Phillips.          |
| Hightstown                                  | Mercer     | 120              | 29                       | 50.6                          | +10.2                      | 83       | 21†   | 21      | 30    | 36                    | 3.41                      | -0.63                      | 1.12                  | 0                          | 13                            | 19     | 6           | 6       | nw.        | E. H. Savige, Jr.             |
| Imlaystown                                  | Monmouth   | 115              | 33                       | 51.6                          | +12.5                      | 83       | 21    | 22      | 30    | 41                    | 2.84                      | -1.24                      | 0.65                  | 0                          | 16                            | 16     | 9           | 6       | sw.        | Wm. R. Hendrickson.           |
| Indian Mills††                              | Burlington | 76               | 32                       | 51.6                          | +11.1                      | 86       | 21†   | 16      | 30    | 39                    | 3.28                      | -0.75                      | 0.98                  | 0                          | 11                            | 12     | 14          | 5       | sw.        | James M. Armstrong.           |
| Lakewood                                    | Ocean      | 54               | 17                       | 49.6                          | +10.0                      | 84       | 21†   | 22      | 30    | 39                    | 3.14                      | -0.84                      | 0.63                  | T.                         | 11                            | 11     | 13          | 7       | sw.        | R. W. Holman.                 |
| Moorestown††                                | Burlington | 75               | 58                       | 51.4†                         | +12.2                      | 85†      | 28    | 23      | 4     | 37                    | 2.67                      | -1.09                      | 0.55                  | 0                          | 10                            | .....  | .....       | .....   | se.        | Stokes Seed Farms Co.         |
| Northfield                                  | Atlantic   | 25               | 14                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.95                      | -0.54                      | 0.77                  | 0                          | 10                            | .....  | .....       | .....   | .....      | William L. Flick.             |
| Pleasantville††                             | Atlantic   | 26               | 23                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 2.82                      | -0.64                      | 0.95                  | 0                          | 11                            | 23     | 2           | 6       | .....      | Lincoln Van Gilder.           |
| Trenton                                     | Mercer     | 190              | 49                       | 50.0                          | +10.9                      | 83       | 21    | 24      | 29    | 47                    | 2.42                      | -1.62                      | 0.67                  | 0.2                        | 13                            | 7      | 13          | 11      | s.         | U. S. Weather Bureau.         |
| Tuckerton                                   | Ocean      | 23               | 28                       | 51.4                          | +11.4                      | 87       | 21    | 19      | 30    | 39                    | 4.30                      | +0.05                      | 1.51                  | 0                          | 8                             | 22     | 6           | 3       | s.         | Frank R. Austin.              |
| Vineland                                    | Cumberland | 109              | 52                       | 55.0                          | +14.5                      | 87       | 27    | 24      | 29    | 46                    | 3.93                      | -0.03                      | 1.50                  | T.                         | 11                            | 19     | 9           | 3       | sw.        | H. C. Himes.                  |
| Woodbine                                    | Cape May   | 43               | 28                       | 53.4                          | +12.3                      | 92       | 27    | 22      | 30    | 44                    | .....                     | .....                      | .....                 | 0                          | .....                         | 13     | 14          | 4       | s.         | W. I. Zechman.                |
| Philadelphia, Pa.                           | Cape May   | 117              | 51                       | 52.5                          | +12.5                      | 93       | 21    | 25      | 29    | 46                    | 2.44                      | -1.01                      | 0.68                  | 0.1                        | 11                            | 8      | 13          | 10      | s.         | U. S. Weather Bureau.         |
| Means and extremes                          |            |                  |                          | 52.0                          | +11.6                      | 92       | 27    | 16      | 30    | 47                    | 3.22                      | -0.69                      | 1.51                  | T.                         | 11                            | 16     | 8           | 7       | s.         |                               |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                               |        |             |         |            |                               |
| Asbury Park                                 | Monmouth   | 22               | 32                       | 49.1                          | +10.1                      | 84       | 21    | 22      | 29    | 36                    | 3.33                      | -0.90                      | 1.13                  | 0                          | 10                            | 16     | 11          | 4       | se.        | Information Bureau.           |
| Atlantic City                               | Atlantic   | 16               | 48                       | 47.8                          | +9.0                       | 72       | 21    | 26      | 29    | 28                    | 2.55                      | -1.18                      | 1.05                  | 0                          | 13                            | 10     | 16          | 5       | sw.        | U. S. Weather Bureau.         |
| Cape May City                               | Cape May   | 17               | 37                       | 48.3                          | +7.5                       | 75       | 21    | 27      | 29    | 24                    | 2.27                      | -1.46                      | 1.07                  | 0                          | 12                            | 17     | 7           | 7       | s.         | U. S. Weather Bureau.         |
| Long Branch                                 | Monmouth   | 25               | 14                       | 46.5                          | +8.0                       | 83       | 21    | 26      | 29    | 35                    | 2.73                      | -1.61                      | 1.60                  | 0                          | 8                             | 19     | 8           | 4       | s.         | William D. Martin, Jr.        |
| Sandy Hook                                  | Monmouth   | 22               | 23                       | 46.8                          | +9.8                       | 76       | 28    | 28      | 29    | 41                    | 2.17                      | -2.07                      | 0.79                  | T.                         | 12                            | 8      | 15          | 8       | s.         | U. S. Weather Bureau.         |
| Means and extremes                          |            |                  |                          | 47.7                          | +8.9                       | 84       | 21    | 22      | 29    | 41                    | 2.61                      | -1.44                      | 1.60                  | 0                          | 11                            | 14     | 11          | 6       | s.         |                               |
| For the State                               |            |                  |                          | 49.1                          | +10.3                      | 92       | 27    | 9       | 30    | 52                    | 3.03                      | -0.86                      | 1.73                  | T.                         | 11                            | 14     | 10          | 7       | s.         |                               |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



## Daily Precipitation for March, 1921.

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded.  
 †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing.  
 \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

### MISCELLANEOUS DATA.

• 7 a. m.      † 9 p. m.



Daily Temperatures for March, 1921.

| Stations.                                  | 1             | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |       |     |
|--------------------------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| <i>The Highlands and Kittatinny Valley</i> |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| Belvidere.....                             | Maximum ..... | 53    | 60    | 60    | 50    | 35    | 53    | 70    | 54    | 66    | 55    | 58    | 63    | 64    | 63    | 69    | 64    | 58    | 50    | 55    | 76    | 83    | 62    | 54    | 50    | 70    | 77    | 75    | 84    | 44    | 54    | 60    | 60.   |     |
|                                            | Minimum ..... | 32    | 29    | 38    | 28    | 26    | 24    | 36    | 38    | 32    | 25    | 29    | 32    | 46    | 37    | 44    | 35    | 36    | 35    | 28    | 45    | 54    | 35    | 26    | 31    | 49    | 45    | 50    | 38    | 22    | 20    | 39    | 35.   |     |
| Charlotteburg.....                         | Maximum ..... | 49    | 50    | 54    | 49    | 40    | 47    | 58    | 53    | 63    | 60    | 51    | 60    | 60    | 58    | 65    | 60    | 53    | 49    | 49    | 71    | 75    | 65    | 61    | 54    | 65    | 65    | 67    | 70    | 45    | 60    | 60    | 57.   |     |
|                                            | Minimum ..... | 31    | 23    | 36    | 21    | 19    | 29    | 35    | 34    | 36    | 30    | 18    | 24    | 46    | 26    | 41    | 40    | 32    | 29    | 18    | 40    | 58    | 32    | 21    | 22    | 37    | 37    | 46    | 37    | 20    | 11    | 29    | 30.   |     |
| Dover.....                                 | Maximum ..... | 50    | 57    | 53    | 40    | 42    | ..... | 67    | 48    | 63    | 49    | 54    | 59    | 60    | 56    | 67    | 63    | 54    | 46    | 48    | 78    | 81    | 48    | 48    | 48    | 51    | 68    | 69    | 68    | 81    | 40    | 50    | 57    | 57. |
|                                            | Minimum ..... | 34    | 27    | 40    | ..... | 26    | ..... | 36    | 40    | 28    | 23    | ..... | 30    | ..... | 36    | ..... | 41    | 37    | ..... | 23    | 45    | 48    | 34    | 26    | 27    | 48    | 42    | 48    | 34    | 21    | 18    | 37    | 33.   |     |
| Layton.....                                | Maximum ..... | 52    | 50    | 54    | 47    | 31    | 51    | 55    | 51    | 64    | 55    | 58    | 62    | 58    | 60    | 70    | 60    | 55    | 48    | 51    | 75    | 82    | 52    | 53    | 50    | 70    | 68    | 78    | 82    | 52    | 50    | 60    | 58.   |     |
|                                            | Minimum ..... | 32    | 23    | 35    | 21    | 20    | 26    | 35    | 30    | 37    | 34    | 31    | 20    | 24    | 25    | 26    | 42    | 26    | 30    | 20    | 44    | 52    | 32    | 20    | 26    | 50    | 42    | 46    | 35    | 21    | 13    | 36    | 31.   |     |
| Newton.....                                | Maximum ..... | 44    | 53    | 52    | 46    | 32    | 51    | 60    | 53    | 64    | 54    | 55    | 60    | 57    | 58    | 65    | 59    | 53    | 49    | 49    | 73    | 81    | 57    | 50    | 48    | 66    | 71    | 72    | 81    | 38    | 49    | 59    | 56.   |     |
|                                            | Minimum ..... | 33    | 32    | 39    | 22    | 20    | 30    | 41    | 36    | 45    | 31    | 30    | 33    | 47    | 32    | 43    | 45    | 32    | 29    | 23    | 44    | 53    | 32    | 25    | 30    | 45    | 49    | 49    | 37    | 20    | 20    | 36    | 34.   |     |
| Phillipsburg.....                          | Maximum ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |     |
|                                            | Minimum ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |     |
| Sussex.....                                | Maximum ..... | 54    | 54    | 57    | 43    | 33    | 49    | 51    | 55    | 64    | 54    | 59    | 52    | 58    | 60    | 71    | 60    | 56    | 50    | 51    | 73    | 80    | 60    | 55    | 49    | 72    | 75    | 76    | 81    | 59    | 53    | 57    | 59.   |     |
|                                            | Minimum ..... | 32    | 24    | 35    | 22    | 20    | 29    | 36    | 36    | 33    | 31    | 21    | 26    | 46    | 29    | 43    | 45    | 27    | 30    | 21    | 43    | 52    | 34    | 24    | 25    | 44    | 40    | 46    | 36    | 22    | 15    | 35    | 32.   |     |
| <i>The Red Sandstone Plain.</i>            |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| Bergen Point.....                          | Maximum ..... | 53    | 63    | 55    | 49    | 41    | 66    | 73    | 53    | 68    | 53    | 55    | 65    | 66    | 56    | 64    | 65    | 56    | 48    | 47    | 80    | 89    | 59    | 57    | 51    | 73    | 63    | 65    | 85    | 43    | 47    | 68    | 60.   |     |
|                                            | Minimum ..... | 35    | 34    | 45    | 28    | 30    | 32    | 43    | 38    | 44    | 35    | 29    | 32    | 46    | 37    | 44    | 35    | 36    | 35    | 28    | 45    | 57    | 73    | 55    | 50    | 60    | 66    | 70    | 67    | 80    |       |       |       |     |

<sup>a, b, c, etc.</sup>, indicate, respectively, 1, 2, 3, etc., days missing from the record, to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is chara



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist.

VOL. XXVI. TRENTON, N. J., APRIL, 1921. No. 4.

### GENERAL SUMMARY.

A cold wave at the close of March extended over into April, and the lowest temperature of the month in New Jersey occurred on the 2d. Thereafter the warmth was continuously above normal, except for brief subnormal periods from the 10th to the 12th, and on the 18th-19th, so that April, 1921 averaged the warmest on record. This warmth has been remarkable for its persistence. It has averaged nearly 6° above normal from December to April, inclusive. The early warming of the ground greatly advanced vegetation and farm work, but frosty weather on the 10th, 12th, and 20th proved disastrous to tender growth. The temperature departures above normal were considerably less along the shore than in the interior, and the precipitation departures varied irregularly from above to below normal. There were no other outstanding features of the weather of the month. Storm warnings were displayed along the coast on the 14th, 17th, and 22d.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations was 56.3°, which was 6.8° above the normal. The highest temperature was 87° at Moorestown on the 25th, and the lowest, 15° at Culvers Lake on the 2d. The highest monthly mean temperature was 59.1° at Burlington, and the lowest, 53.2° at Charlotteburg. The greatest daily range of temperature was 45° at Charlotteburg on the 14th. The temperature departure from the normal for the year 1921 to date, by sections, is: The Highlands, +6.1°; Red Sandstone Plain, +6.0°; Southern Interior, +6.5°; Sea Coast, +5.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations was 3.57 inches, which was 0.11 inch below the normal. The mean total snowfall was 0.4 inch, which was 0.4 inch below the normal. The greatest monthly precipitation was 5.20 inches at Long Branch, and the least, 1.86 inches at Trenton. The greatest amount of precipitation in any 24 consecutive hours was 2.10 inches at Camp Dix on the 23d-24th, the mean number of days on which 0.01 inch or more of precipitation occurred was 11, which was 1 more than the normal. The precipitation accumulated departure from the normal for the year 1921 to date, by sections, is: The Highlands, +0.63 inch; Red Sandstone Plain, -1.95 inches; Southern Interior, -1.43 inches; Sea Coast, -3.34 inches.

### WIND.

The prevailing direction was from the southwest, with an approximate velocity of 11 miles per hour, which was about nor-

mal. The highest wind velocity, sustained for 5 consecutive minutes, was 66 miles per hour from the southeast on the 23d at Long Branch. High winds were reported also on the 1st and 17th.

### SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 13, which was 2 more than the normal, partly cloudy, 6, which was 4 less than the normal; cloudy, 11, which was 2 more than the normal. The approximate per cent. of possible sunshine was 54, which was about normal.

### MISCELLANEOUS.

The mean daily stage of the Delaware River at Trenton was 3.2 feet, which was 0.6 foot below the normal; the highest stage was 4.5 feet on the 25th.

The mean atmospheric pressure, reduced to sea level, was 30.06 inches, which was 0.06 inch above the normal. The highest reading, 30.54 inches, occurred at Ridgefield on the 7th, and the lowest, 29.54 inches, at Trenton on the 23d.

Dense fog was reported on the 5th, 6th, 7th, 8th, 9th, 15th, 16th, 23d, and 29th. Sleet occurred at some stations on the 1st and 18th, but in no appreciable amounts. Solar halos were observed on the 14th and 25th, and a lunar halo on the 12th. Thunderstorms occurred on the 9th, 17th, 23d, and 30th. Killing frosts occurred quite generally on the 2d and 12th, and at a few scattered stations on the 20th.

### COMPARATIVE DATA FOR APRIL.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 48.4         | 88       | 26      | 2.79           | 2.86      | 0.89   | .....        | .....          | .....   | .....                  |
| 1886..... | 50.6         | 86       | 27      | 3.40           | 5.48      | 1.86   | .....        | .....          | .....   | .....                  |
| 1887..... | 47.3         | 87       | 16      | 2.70           | 3.77      | 0.91   | .....        | .....          | 12      | 7                      |
| 1888..... | 47.9         | 92       | 22      | 3.28           | 4.68      | 1.89   | .....        | .....          | 6       | 9                      |
| 1889..... | 51.2         | 83       | 25      | 5.32           | 7.25      | 2.92   | .....        | .....          | 14      | 12                     |
| 1890..... | 50.4         | 86       | 21      | 2.65           | 4.58      | 1.89   | .....        | .....          | 7       | 8                      |
| 1891..... | 52.0         | 88       | 20      | 2.19           | 3.80      | 1.39   | 13           | 11             | 6       | 8                      |
| 1892..... | 49.3         | 87       | 19      | 2.49           | 4.41      | 1.05   | 9            | 13             | 8       | 8                      |
| 1893..... | 49.2         | 82       | 19      | 5.21           | 7.12      | 2.97   | 9            | 10             | 12      | 11                     |
| 1894..... | 50.3         | 88       | 10      | 3.09           | 4.86      | 1.71   | 12           | 9              | 9       | 9                      |
| 1895..... | 49.1         | 89       | 19      | 4.88           | 7.75      | 3.47   | 11           | 7              | 12      | 10                     |
| 1896..... | 52.4         | 98       | 12      | 1.85           | 2.30      | 0.64   | 13           | 10             | 7       | 7                      |
| 1897..... | 50.4         | 89       | 19      | 3.79           | 6.98      | 2.17   | 14           | 11             | 5       | 9                      |
| 1898..... | 47.8         | 81       | 13      | 3.74           | 4.94      | 2.17   | 8            | 11             | 11      | 11                     |
| 1899..... | 49.9         | 88       | 18      | 1.73           | 3.25      | 0.48   | 16           | 10             | 4       | 4                      |
| 1900..... | 50.8         | 82       | 18      | 2.29           | 3.03      | 1.59   | 14           | 9              | 7       | 6                      |
| 1901..... | 48.3         | 89       | 23      | 6.31           | 10.22     | 3.46   | 8            | 7              | 15      | 12                     |
| 1902..... | 50.2         | 93       | 20      | 3.62           | 5.99      | 2.45   | 10           | 11             | 9       | 9                      |
| 1903..... | 50.9         | 92       | 18      | 3.97           | 7.03      | 2.40   | 13           | 7              | 10      | 9                      |
| 1904..... | 46.7         | 85       | 16      | 3.42           | 4.71      | 2.00   | 9            | 12             | 9       | 10                     |
| 1905..... | 49.9         | 84       | 18      | 2.88           | 4.03      | 1.53   | 12           | 11             | 7       | 10                     |
| 1906..... | 51.2         | 87       | 17      | 3.64           | 6.42      | 1.17   | 15           | 10             | 5       | 8                      |
| 1907..... | 45.2         | 83       | 19      | 3.78           | 8.67      | 2.06   | 11           | 9              | 10      | 11                     |
| 1908..... | 51.2         | 93       | 13      | 2.72           | 3.86      | 1.42   | 14           | 9              | 7       | 11                     |
| 1909..... | 50.2         | 88       | 17      | 5.97           | 8.90      | 3.84   | 10           | 11             | 9       | 13                     |
| 1910..... | 53.5         | 88       | 20      | 5.34           | 7.56      | 3.43   | 9            | 11             | 10      | 12                     |
| 1911..... | 47.4         | 88       | 14      | 4.11           | 5.58      | 2.87   | 10           | 10             | 10      | 11                     |
| 1912..... | 50.4         | 82       | 18      | 3.56           | 6.02      | 1.81   | 9            | 10             | 11      | 14                     |
| 1913..... | 52.1         | 89       | 19      | 5.78           | 8.53      | 4.14   | 14           | 7              | 9       | 11                     |
| 1914..... | 48.4         | 89       | 15      | 3.67           | 4.78      | 2.35   | 13           | 10             | 7       | 11                     |
| 1915..... | 54.4         | 96       | 20      | 2.71           | 4.13      | 1.28   | 14           | 10             | 6       | 9                      |
| 1916..... | 48.2         | 85       | 20      | 3.32           | 6.14      | 0.90   | 10           | 9              | 11      | 13                     |
| 1917..... | 48.8         | 88       | 15      | 2.39           | 3.54      | 1.19   | 15           | 8              | 7       | 9                      |
| 1918..... | 49.8         | 81       | 18      | 4.05           | 5.79      | 2.88   | 11           | 8              | 11      | 12                     |
| 1919..... | 49.3         | 85       | 10      | 3.06           | 4.79      | 2.20   | 13           | 7              | 10      | 10                     |
| 1920..... | 48.0         | 85       | 10      | 4.50           | 6.06      | 2.90   | 12           | 9              | 9       | 13                     |
| 1921..... | 56.3         | 87       | 15      | 3.57           | 5.20      | 1.86   | 13           | 6              | 11      | 11                     |



## Climatological Data for April, 1921.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere††                                 | Warren     | 289              | 30                       | 57.4                          | +7.6                       | 83              | 5     | 23      | 2     | 41                        | 3.54   | -0.12                      | 1.08                  | 0                          | 10                             | 19     | 4           | 7                             | .....      | Samuel J. Hixson.         |
| Charlotteburg                               | Passaic    | 719              | 29                       | 53.2 <sup>b</sup>             | +6.4                       | 80              | 25    | 20      | 2     | 45 <sup>i</sup>           | 4.52   | +0.20                      | 1.27                  | 0                          | 7                              | 18     | 7           | 5                             | sw.        | George S. Briggs.         |
| Culvers Lake††                              | Sussex     | 848              | 20                       |                               |                            |                 |       | 15      | 2     |                           | 3.20   | -0.62                      | 0.91                  | 0.4                        | 11                             | 18     | 4           | 8                             | se.        | Brice E. Riker.           |
| Dover                                       | Morris     | 600              | 37                       | 54.4                          | +7.0                       | 82              | 5†    | 24      | 2     | 40                        | 4.34   | +0.58                      | 0.95                  | T.                         | 10                             | 8      | 14          | 8                             | .....      | William C. Harris.        |
| Layton                                      | Sussex     | 480              | 20                       | 54.8                          | +7.6                       | 82              | 5     | 20      | 2     | 44                        | 4.54   | +0.93                      | 1.61                  | 0                          | 10                             | 13     | 3           | 14                            | sw.        | A. M. Depue.              |
| Newton                                      | Sussex     | 769              | 38                       | 54.8                          | +6.8                       | 80              | 5     | 23      | 2     | 34                        | 3.22   | -0.15                      | 0.57                  | T.                         | 12                             | 12     | 9           | 9                             | sw.        | Irving G. Kern.           |
| Phillipsburg                                | Warren     | 363              | 39                       |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               | .....      | Mrs. D. Wilson Smith.     |
| Sussex                                      | Sussex     | 442              | 27                       | 55.3 <sup>b</sup>             | +6.7                       | 83              | 5†    | 21      | 2     | 39                        | 2.94   | -0.50                      | 0.69                  | 0                          | 11                             |        |             |                               | sw.        | Rev. W. August George     |
| Means and extremes.                         |            |                  |                          | 55.0                          | +7.0                       | 83              | 5†    | 15      | 2     | 45                        | 3.76   | +0.22                      | 1.61                  | 0.1                        | 10                             | 15     | 7           | 8                             | sw.        |                           |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††                              | Hudson     | 37               | 24                       | 56.2 <sup>b</sup>             | +6.7                       | 83              | 4†    | 27      | 2     | 39                        | 4.44   | +0.05                      | 1.32                  | T.                         | 6                              | 12     | 9           | 9                             | se.        | William H. Mitchell.      |
| Boonton                                     | Morris     | 400              | 31                       | 54.4                          | +6.3                       | 78              | 6     | 24      | 2     | 36                        | 4.32   | +0.33                      | 1.39                  | T.                         | 12                             | 18     | 5           | 7                             | sw.        | J. W. Demmers.            |
| Chatham                                     | Morris     | 185              | 17                       |                               |                            |                 |       |         |       |                           | 3.73   | -0.37                      | 1.04                  | T.                         | 12                             | 15     | 7           | 8                             | .....      | Paul Molitor, Sr.         |
| Elizabeth                                   | Union      | 45               | 42                       | 57.2                          | +6.4                       | 82              | 5     | 27      | 2     | 40                        | 2.97   | -0.71                      | 1.03                  | T.                         | 9                              | 11     | 10          | 9                             | sw.        | L. B. Bonnett.            |
| Flemington                                  | Hunterdon  | 140              | 35                       | 57.8                          | +7.4                       | 82              | 25    | 27      | 2     | 41                        | 4.90   | +1.38                      | 1.71                  | T.                         | 10                             | 17     | 5           | 8                             | sw.        | Hiram E. Deats.           |
| Highwood                                    | Bergen     | 90               | 33                       | 54.7                          | +6.2                       | 80              | 5     | 24      | 2     | 38                        | 4.74   | +1.31                      | 1.06                  | T.                         | 11                             | 11     | 8           | 11                            | sw.        | Charles J. Bates.         |
| Jersey City                                 | Hudson     | 10               | 24                       | 57.9                          | +7.9                       | 80              | 5     | 31      | 2     | 33                        | 2.71   | -1.45                      | 0.65                  | 0.1                        | 13                             | 12     | 9           | 9                             | sw.        | S. K. Pearson, Jr.        |
| Kearny                                      | Hudson     | 100              | 2                        | 58.0                          |                            | 82              | 5†    | 30      | 2     | 34                        | 3.77   |                            | 1.15                  | 0                          | 9                              | 9      | 10          | 11                            | ne.        | Wm. J. Chandler, M. D.    |
| Lambertville                                | Hunterdon  | 300              | 34                       |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               | .....      | Thomas R. Hunt.           |
| Little Falls                                | Passaic    | 180              | 18                       | 58.0                          | +8.1                       | 84              | 25    | 28      | 2     | 36                        | 4.10   | -0.02                      | 1.22                  | 0                          | 11                             | 13     | 9           | 8                             | nw.        | Montclair Water Co.       |
| Newark                                      | Essex      | 159              | 79                       | 56.2                          | +6.2                       | 81              | 4     | 31      | 2†    | 29                        | 2.50   | -1.24                      | 0.56                  | T                          | 11                             | 12     | 6           | 12                            | sw.        | Prof. William Wiener.     |
| New Brunswick                               | Middlesex  | 110              | 68                       | 57.2                          | +7.3                       | 79              | 4†    | 27      | 2     | 34                        | 2.34   | -1.40                      | 0.67                  | T.                         | 9                              | 16     | 8           | 6                             | w.         | N. J. Experiment Station. |
| New Milford††                               | Bergen     |                  | 2                        |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               | .....      | Hackensack Water Co.      |
| Paterson                                    | Passaic    | 80               | 50                       | 58.3                          | +7.8                       | 85              | 5     | 28      | 2     | 38                        | 3.04   | -0.52                      | 1.03                  | 0                          | 11                             | 5      | 3           | 22                            | se.        | Marion T. Probert.        |
| Plainfield                                  | Somerset   | 110              | 33                       | 55.2                          | +5.6                       | 80              | 4†    | 24      | 2     | 41                        | 2.98   | -0.92                      | 0.99                  | T.                         | 10                             | 11     | 11          | 8                             | sw.        | E. D. Pearson.            |
| Ridgefield††                                | Bergen     | 70               | 6                        | 54.8                          |                            | 80              | 5     | 27      | 2     | 34                        | 3.84   |                            | 0.79                  | 0.1                        | 12                             | 13     | 4           | 13                            | nw.        | George P. Kirsten.        |
| Somerville                                  | Somerset   | 74               | 38                       | 58.4                          | +8.9                       | 80              | 4†    | 30      | 2     | 40                        | 3.26   | -0.23                      | 1.04                  | T.                         | 10                             | 12     | 6           | 12                            | w.         | Kenneth Bauer.            |
| South Orange                                | Essex      | 200              | 51                       | 55.2                          | +6.7                       | 78              | 5     | 28      | 2     | 32                        | 3.27   | -0.30                      | 1.06                  | T.                         | 9                              | 14     | 8           | 8                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake††                            | Bergen     |                  | 2                        |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               | .....      | Hackensack Water Co.      |
| New York, N. Y.                             |            | 365              | 51                       | 55.0                          | +6.9                       | 76              | 4     | 28      | 11    | 28                        | 2.88   | -0.42                      | 0.66                  | 0.1                        | 12                             | 9      | 8           | 13                            | sw.        | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 56.6                          | +7.0                       | 85              | 5     | 24      | 2     | 41                        | 3.50   | -0.32                      | 1.71                  | T.                         | 11                             | 13     | 7           | 10                            | sw.        |                           |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton                                   | Cumberland | 30               | 40                       | 59.0                          | +6.3                       | 84              | 25    | 28      | 2†    | 36                        | 3.26   | -0.26                      | 0.80                  | 3.0                        | 9                              | 15     | 3           | 12                            | w.         | Henry A. Jorden.          |
| Burlington                                  | Burlington | 12               | 35                       | 59.1                          | +7.3                       | 82              | 4     | 29      | 2     | 39                        | 4.09   | +0.38                      | 1.15                  | 0                          | 12                             | 20     | 3           | 7                             | sw.        | D. S. B. McCoy.           |
| Camp Dix                                    | Burlington | 127              | 3                        | 57.4                          |                            | 81              | 4     | 25      | 2     | 40                        | 3.91   |                            | 2.10                  | 0.2                        | 14                             | 5      | 2           | 23                            | se.        | U. S. Army.               |
| Clayton                                     | Gloucester | 130              | 28                       | 57.8                          | +6.6                       | 84              | 25    | 27      | 2     | 41                        | 3.40   | -0.08                      | 0.66                  | 0.5                        | 12                             | 10     | 2           | 18                            | sw.        | Marvin E. Porch.          |
| Hammoncton                                  | Atlantic   | 103              | 20                       |                               |                            |                 |       |         |       |                           | 4.35   | +0.43                      | 1.04                  | 1.5                        | 13                             | 14     | 7           | 9                             | s.         | Charles M. Phillips.      |
| Hightstown                                  | Mercer     | 120              | 29                       | 57.0                          | +6.5                       | 81              | 4     | 25      | 2     | 39                        | 4.44   | +0.53                      | 1.72                  | 1.0                        | 11                             | 16     | 6           | 8                             | nw.        | E. H. Savage, Jr.         |
| Imlaystown                                  | Monmouth   | 115              | 33                       | 57.2                          | +6.7                       | 81              | 5†    | 25      | 2†    | 42                        | 3.53   | +0.09                      | 0.64                  | T.                         | 12                             | 18     | 4           | 8                             | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††                              | Burlington | 76               | 32                       | 57.2                          | +6.9                       | 82              | 5     | 22      | 2     | 42                        | 4.71   | +1.28                      | 1.13                  | 0.8                        | 11                             | 10     | 8           | 12                            | s.         | James M. Armstrong.       |
| Lakewood                                    | Ocean      | 54               | 17                       | 56.2                          | +6.8                       | 80              | 4†    | 27      | 2     | 39                        | 3.56   | -0.11                      | 0.95                  | 1.5                        | 11                             | 13     | 4           | 13                            | sw.        | R. W. Holman.             |
| Moorestown††                                | Burlington | 75               | 58                       | 58.2 <sup>s</sup>             | +7.8                       | 87              | 25    | 26      | 2     | 40                        | 3.06   | -0.23                      | 0.60                  | 0                          | 11                             |        |             |                               | .....      | Stokes Seed Farms Co.     |
| Northfield                                  | Atlantic   | 25               | 14                       |                               |                            |                 |       |         |       |                           | 3.73   | +0.27                      | 0.82                  | 1.5                        | 12                             |        |             |                               | .....      | William L. Flick.         |
| Pleasantville††                             | Atlantic   | 26               | 23                       |                               |                            |                 |       |         |       |                           | 3.57   | +0.22                      | 0.85                  | 0                          | 12                             | 14     | 3           | 13                            | .....      | Lincoln Van Gilder.       |
| Trenton                                     | Mercer     | 190              | 49                       | 56.6                          | +6.8                       | 80              | 25    | 29      | 2     | 30                        | 1.86   | -1.43                      | 0.56                  | 0.2                        | 13                             | 10     | 6           | 14                            | sw.        | U. S. Weather Bureau.     |
| Tuckerton*                                  | Ocean      | 23               | 28                       | 55.7                          | +6.4                       | 76              | 5     | 26      | 2     | 34                        | 2.74   | -1.00                      | 1.21                  | 1.8                        | 10                             | 13     | 7           | 10                            | s.         | Frank R. Austin.          |
| Vineland                                    | Cumberland | 109              | 52                       | 58.9                          | +7.9                       | 82              | 25    | 27      | 2     | 36                        | 3.75   | +0.35                      | 0.84                  | T                          | 10                             | 14     | 6           | 10                            | sw.        | H. C. Himes.              |
| Woodbine                                    | Cape May   | 43               | 28                       | 57.5 <sup>d</sup>             | +6.9                       | 81 <sup>e</sup> | 22    | 24      | 2     | 37                        |        |                            |                       |                            |                                |        |             |                               | n.         | W. I. Zechman.            |
| Philadelphia, Pa.                           |            | 117              | 61                       | 58.5                          | +7.7                       | 82              | 25    | 29      | 11    | 28                        | 1.85   | -1.06                      | 0.78                  | 0.4                        | 12                             | 10     | 4           | 16                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 57.5                          | +6.9                       | 87              | 25    | 22      | 2     | 42                        | 3.66   | +0.11                      | 2.10                  | 0.8                        | 12                             | 13     | 5           | 12                            | sw.        |                           |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park                                 | Monmouth   | 22               | 32                       |                               |                            | 73              | 22    | 24      | 2     | .....                     | 3.02   | -0.67                      | 0.97                  | 0                          | 11                             | 13     | 8           | 9                             | nw.        | Information Bureau.       |
| Atlantic City                               | Atlantic   | 16               | 48                       | 52.9                          | +5.3                       | 73              | 24    | 30      | 2     | 27                        | 3.16   | +0.17                      | 0.84                  | 1.4                        | 13                             | 11     | 4           | 15                            | sw.        | U. S. Weather Bureau.     |
| Cape May City                               | Cape May   | 17               | 37                       | 53.8                          | +5.4                       | 73              | 24    | 29      | 11    | 22                        | 2.97   | -0.02                      | 0.62                  | 2.1                        | 14                             | 9      | 4           | 17                            | s.         | U. S. Weather Bureau.     |
| Long Branch                                 | Monmouth   | 25               | 14                       | 52.2                          | +4.1                       | 74              | 22    | 28      | 2     | 30                        | 5.20   | +0.65                      | 0.80                  | 0.9                        | 13                             | 13     | 7           | 10                            | s.         | William D. Martin, Jr.    |
| Sandy Hook                                  | Monmouth   | 22               | 23                       | 54.0                          | +7.0                       | 75              | 4     | 31      | 11    | 28                        | 2.21   | -1.75                      | 0.86                  | T.                         | 11                             | 9      | 8           | 13                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 53.2                          | +5.4                       | 75              | 4     | 24      | 2     | 30                        | 3.31   | -0.32                      | 0.97                  | 0.9                        | 12                             | 11     | 6           | 13                            | s.         |                           |
| For the State                               |            |                  |                          | 56.3                          | +6.8                       | 87              | 25    | 1       | 2     | 45                        | 3.57   | -0.11                      | 2.10                  | 0.4                        | 11                             | 13     | 6           | 11                            | sw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

\* Occurred on March 31-April 1, and published in March report.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for April, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     | Total. |      |      |
|--------------------------------------------|-----------------|---------------|-----|---|---|---|---|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|------|------|-----|----|----|------|------|------|----|----|----|----|------|-----|--------|------|------|
|                                            |                 | 1             | 2   | 3 | 4 | 5 | 6 | 7   | 8   | 9   | 10  | 11  | 12  | 13 | 14 | 15  | 16  | 17  | 18   | 19   | 20  | 21 | 22 | 23   | 24   | 25   | 26 | 27 | 28 | 29 | 30   | 31  |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     |        |      |      |
| Belvidere.....                             | Delaware.....   | .41           |     |   |   |   |   |     |     | .30 |     |     |     |    |    | .32 | .06 | .32 | .34  | .20  |     |    |    | .20  | .31  |      |    |    |    |    | 1.08 |     | 3.54   |      |      |
| Charlotteburg.....                         | Passaic.....    | .60           |     |   |   |   |   | T.  |     | .48 |     |     |     |    |    | .42 |     |     | 1.02 | .08  |     |    |    | 1.27 |      |      |    |    |    |    | .65  |     | 4.54   |      |      |
| Culvers Lake.....                          | Delaware.....   | .91           |     |   |   |   |   | T.  | .01 | .25 |     | T.  |     |    |    | .45 | *   | .15 | .45  | .12  |     |    | T. | T.   | .59  | .20  |    |    |    | T. | .05  | .02 | 3.20   |      |      |
| Dover.....                                 | Passaic.....    | .95           |     |   |   |   |   |     | *   | .76 |     | T.  |     |    |    | .51 | *   | .60 | .15  |      |     |    |    | .87  |      |      |    |    |    |    | .10  | .40 | 4.34   |      |      |
| Layton.....                                | Delaware.....   | 1.61          |     |   |   |   |   | T.  | .35 |     |     |     |     |    |    | .40 |     | .20 | .28  | .06  |     |    |    |      | .42  | .26  |    |    |    |    | .39  | .57 | 4.54   |      |      |
| Newton.....                                | Delaware.....   | .57           |     |   |   |   |   |     | .01 | .22 | T.  |     |     |    |    | .35 |     | .13 | .40  | .18  |     |    |    | .42  | .34  |      |    |    |    |    | .14  | .45 | 3.22   |      |      |
| Phillipsburg.....                          | do.....         |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     | .20 | .14  |      |     | T. |    |      | .77  | .43  |    |    |    |    | .60  |     | \$     |      |      |
| Sussex.....                                | Hudson.....     | .69           |     |   |   |   |   |     | .02 | .20 |     |     |     |    |    | .43 |     | .07 | .25  | .10  |     | T. |    |      | .30  | .51  |    |    |    |    | .17  | .20 | 2.94   |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     |        |      |      |
| Bergen Point.....                          | Coast.....      | .81           |     |   |   |   |   | T.  | T.  |     | T.  | T.  |     |    |    | .65 |     | .15 | .41  |      |     |    |    | 1.10 |      |      |    |    |    | T. | 1.32 |     | 4.44   |      |      |
| Boonton.....                               | Passaic.....    | 1.04          | T.  |   |   |   |   | T.  | .01 | .41 | .05 | T.  |     |    |    | .38 | .17 | .16 | .38  | .17  |     |    |    | .01  | 1.38 |      |    |    |    | T. | .16  |     | 4.32   |      |      |
| Chatham.....                               | do.....         | .68           | .01 |   |   |   |   | T.  | .52 | .03 | T.  |     |     |    |    | .24 | .12 | .26 | .37  | .26  | .02 |    |    |      | 1.04 |      |    |    |    |    | .18  |     | 3.73   |      |      |
| Elizabeth.....                             | Coast.....      | .53           |     |   |   |   |   | T.  | T.  | .32 |     | T.  |     |    |    | .28 |     | .20 | *    | .50  |     |    |    | *    | 1.03 |      |    |    |    |    | T.   | .11 | 2.97   |      |      |
| Flemington.....                            | Raritan.....    | .50           |     |   |   |   |   | T.  | .52 |     | T.  |     |     |    |    | .15 |     | .18 | .17  | .07  |     |    | T. | 1.71 | .09  |      |    |    |    |    | .03  | .48 | 4.90   |      |      |
| Highwood.....                              | Hackensack..... | .61           |     |   |   |   |   |     | .08 | .35 | T.  | T.  |     |    |    | .60 |     | .39 | .40  | .10  |     | T. |    | 1.02 | .04  |      |    |    |    |    | .54  | .61 | 4.74   |      |      |
| Jersey City.....                           | Coast.....      | .49           |     |   |   |   |   | T.  | .02 | .18 |     |     |     |    |    | .36 | .01 | .14 | .34  | .12  |     |    | T. | .52  | .13  |      |    |    |    |    | .14  | .24 | 2.71   |      |      |
| Kearny.....                                | Coast.....      | .98           |     |   |   |   |   |     | *   | .50 |     |     |     |    |    | *   | .42 | T.  | *    | .42  |     |    |    | 1.15 |      |      |    |    |    |    | T.   | .30 | 3.77   |      |      |
| Little Falls.....                          | Delaware.....   |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     |        |      |      |
| Little Falls.....                          | Passaic.....    | .58           |     |   |   |   |   |     | .03 | .44 | .05 |     |     |    |    | .37 |     | .23 | .39  | .30  |     |    |    |      | .19  | 1.03 |    |    |    |    |      | .19 |        | 4.10 |      |
| Newark**.....                              | Coast.....      | .21           |     |   |   |   |   |     | .04 | .23 | .14 | T.  |     |    |    | .12 |     | .56 | .22  | .07  |     |    |    | .33  |      |      |    |    |    |    | .10  | .48 | 2.50   |      |      |
| New Brunswick.....                         | Raritan.....    | .51           |     |   |   |   |   |     |     | .06 |     | T.  |     |    |    | .10 | T.  | .17 | .31  | .10  |     |    |    |      | .17  | .67  |    |    |    |    | T.   | .25 | 2.34   |      |      |
| New Milford.....                           | Hackensack..... |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     |        |      |      |
| Paterson.....                              | Passaic.....    | .30           |     |   |   |   |   | T.  |     | .44 |     | T.  |     |    |    | .30 | .06 | .15 | .42  | .15  |     |    |    | .83  | .20  |      |    |    |    |    | .09  | .10 | 3.04   |      |      |
| Plainfield.....                            | Raritan.....    | .50           |     |   |   |   |   | T.  | .05 | .52 | T.  | T.  |     |    |    | .23 |     | .21 | .26  | .08  |     |    |    | .90  | .09  |      |    |    |    |    | T.   | .14 | 2.98   |      |      |
| Ridgefield**.....                          | Hackensack..... | .67           |     |   |   |   |   | T.  | .02 | .34 |     | .01 |     |    |    | .56 |     | .25 | .20  | .27  |     |    |    | .28  | .45  |      |    |    |    |    | *    | .79 | 3.84   |      |      |
| Somerville.....                            | Raritan.....    | .50           |     |   |   |   |   |     |     |     |     |     |     |    |    | .10 | T.  | .14 | .29  | .04  |     |    |    | 1.04 | .35  |      |    |    |    |    | T.   | .40 | 3.26   |      |      |
| South Orange.....                          | Rahway.....     | .25           |     |   |   |   |   | T.  | T.  | .60 |     | T.  |     |    |    | .44 |     | .28 | .36  | .06  |     |    |    | 1.00 | .06  |      |    |    |    |    | T.   | .22 | 3.27   |      |      |
| Woodcliff Lake.....                        | Hackensack..... |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     |        |      |      |
| New York, N. Y.***                         | Coast.....      | .40           |     |   |   |   |   | T.  | .05 | .12 |     | .01 |     |    |    | .55 |     | .23 | .32  | .08  |     | T. |    | .63  | .03  |      |    |    |    |    | .32  | .14 |        | 2.88 |      |
| <i>The Southern Interior.</i>              |                 |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     |        |      |      |
| Bridgeton.....                             | Coast.....      | .80           |     |   |   |   |   | T.  | .18 | .05 |     | .35 |     |    |    | .16 | .22 | .60 |      |      |     |    |    | .70  |      |      |    |    |    |    |      | .20 |        | 3.26 |      |
| Burlington.....                            | Delaware.....   | .86           |     |   |   |   |   |     | .18 | *   | .15 | *   | .05 |    |    | .23 |     | .25 | .37  | 1.15 |     |    |    | .57  | .23  |      |    |    |    |    | T.   | .23 |        | 4.09 |      |
| Camp Dix.....                              | Delaware.....   | .06           |     |   |   |   |   | .02 | .22 | .04 | *   | .14 |     |    |    | .19 | .04 | .17 | .64  | .24  | .04 |    |    |      | 2.10 |      |    |    |    |    |      | .01 |        | 3.91 |      |
| Clayton.....                               | Maurice.....    | .55           |     |   |   |   |   |     | .30 | .20 | T.  | .05 |     |    |    | .13 | T.  | .66 | .45  | .13  |     |    |    | .62  | .03  |      |    |    |    |    | .07  | .21 |        | 3.40 |      |
| Hammononton.....                           | Mullica.....    | 1.04          |     |   |   |   |   | .01 | .06 | .12 | T.  | .31 |     |    |    | .52 | .01 | .74 | .63  | .11  |     |    |    | .23  | .33  |      |    |    |    |    |      | .34 |        | 4.35 |      |
| Hightstown.....                            | Raritan.....    | .60           |     |   |   |   |   | T.  | .05 | .12 |     | .03 |     |    |    | .52 |     | .23 | .43  | .16  |     |    |    | 1.72 | .09  |      |    |    |    |    |      | .49 |        | 4.44 |      |
| Imlaystown.....                            | Delaware.....   | .58           | .01 |   |   |   |   |     | .08 | .15 |     | .07 |     |    |    | .46 | .01 | .32 | .64  | .18  | T.  |    |    |      | .53  |      |    |    |    |    |      | .50 |        | 3.53 |      |
| Indian Mills.....                          | Mullica.....    | .72           |     |   |   |   |   | T.  | .13 | .62 | T.  | .25 |     |    |    | .27 |     | .55 | .45  | .14  |     |    |    | .66  | .47  |      |    |    |    |    | T.   | .45 |        | 4.71 |      |
| Lakewood.....                              | Metedeconk..... | .95           |     |   |   |   |   | T.  | .08 | .52 | T.  | .15 |     |    |    | .31 |     | .33 | .47  | .12  |     |    |    | .23  | .20  |      |    |    |    |    | T.   | .20 |        | 3.56 |      |
| Moorstown.....                             | Delaware.....   | .60           |     |   |   |   |   |     | .06 | .12 |     | .20 |     |    |    | .40 | .03 | *   | .58  | .13  |     |    |    | .34  |      |      |    |    |    |    |      | .60 |        | 3.06 |      |
| Northfield.....                            | Coast.....      | .82           |     |   |   |   |   | .01 | .10 | .12 | .04 | .37 |     |    |    | .21 |     | .50 | .44  | T.   |     |    |    | .51  | .39  |      |    |    |    |    |      | .22 |        | 3.73 |      |
| Pleasantville.....                         | Coast.....      | .77           |     |   |   |   |   | .01 | .08 | .10 | .05 | .25 |     |    |    | .26 |     | .30 | .85  | .03  |     |    |    | .73  | .14  |      |    |    |    |    | T.   | T.  |        | 3.57 |      |
| Trenton***.....                            | Delaware.....   | .50           |     |   |   |   |   | .01 | .05 | .06 | .01 | .02 |     |    |    | .08 | T.  | .31 | .11  | .09  |     | T. |    |      | .24  |      |    |    |    |    |      | .01 | .37    |      | 1.86 |
| Tuckerton†.....                            | Coast.....      | *             |     |   |   |   |   | .06 | .30 |     | .20 | .24 |     |    |    | .15 |     | .45 | .38  |      |     |    |    | .46  |      |      |    |    |    |    |      | .50 |        | 2.74 |      |
| Vineland.....                              | Maurice.....    | .84           |     |   |   |   |   |     | T.  | .13 |     | .40 |     |    |    |     | *   | .27 | .66  |      | .41 |    |    |      | .56  |      |    |    |    |    | .27  | .21 |        | 3.75 |      |
| Woodbine.....                              | Coast.....      | .40           |     |   |   |   |   |     |     |     |     | .06 |     |    |    | .72 |     | .58 | .16  |      |     |    |    | .51  |      |      |    |    |    |    |      | .03 |        | \$   |      |
| Philadelphia, Pa.....                      | Delaware.....   | .50           |     |   |   |   |   | T.  | .01 | .09 | .07 | .02 |     |    |    | .11 | T.  | .22 | .05  | .08  |     |    |    |      |      |      |    |    |    |    |      | .03 | .27    |      | 1.85 |
| <i>The Sea Coast.</i>                      |                 |               |     |   |   |   |   |     |     |     |     |     |     |    |    |     |     |     |      |      |     |    |    |      |      |      |    |    |    |    |      |     |        |      |      |
| Asbury Park.....                           | Coast.....      | .97           |     |   |   |   |   | .01 |     | .35 |     | .05 |     |    |    | .40 |     | .20 | .43  | .10  |     |    |    | .40  |      |      |    |    |    |    | .08  | .03 |        | 3.02 |      |
| Atlantic City***.....                      | do.....         | .71           |     |   |   |   |   | .05 | .10 | .05 | .19 | .19 |     |    |    | .21 | T.  | .65 | .04  | .02  |     |    |    | .84  |      |      |    |    |    |    | .02  | .09 |        | 3.16 |      |
| Cape May City.....                         | do.....         | .47           |     |   |   |   |   | .01 | .02 | .13 | .07 | .55 |     |    |    | .22 | .01 | .61 | .10  | .03  |     |    |    | .42  | .07  |      |    |    |    |    | T.   | T.  |        | 2.97 |      |
| Long Branch**.....                         | do.....         | .76           |     |   |   |   |   | .07 | .10 | .76 |     | .11 |     |    |    | .17 | .01 | .80 | .76  | .09  |     |    |    | .62  | .18  |      |    |    |    |    |      | .77 |        | 5.20 |      |
| Sandy Hook***.....                         | do.....         | .59           |     |   |   |   |   | T.  | .03 | .21 |     | .01 |     |    |    | .42 |     | .19 | .26  | .02  |     |    |    | .30  | T.   |      |    |    |    |    | .01  | .17 |        | 2.21 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Amount recorded on March 31, and so published. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                    |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                    |
| Atlantic City.....    | 30.07         | 30.42    | 5     | 29.57   | 23    | 8                | 26              | se.        | 23        | 83                                         | 84                                         | 57                                 |
| Cape May City.....    | 30.10         | 30.45    | 4     | 29.66   | 17    | 10               | 36              | s.         | 23        | 84                                         | 85                                         | .....                              |
| Long Branch.....      |               |          |       |         |       |                  | 66              | se.        | 23        |                                            |                                            |                                    |
| Newark.....           |               |          |       |         |       |                  |                 |            |           |                                            |                                            |                                    |
| New York, N. Y.....   | 30.04         | 30.48    | 7     | 29.61   | 23    | 16               | 53              | se.        | 23        | 76*                                        | 72†                                        | 49                                 |
| Philadelphia, Pa..... | 30.07         | 30.44    | 7     | 29.56   | 23    | 11               | 33              | s.         | 23        | 78                                         | 71                                         | 57                                 |
| Ridgefield.....       | 30.04         | 30.54    | 7     | 29.63   | 17    |                  |                 |            |           | 82                                         | 72                                         | 58                                 |
| Sandy Hook.....       | 30.05         | 30.49    | 7     | 29.59   | 23    | 14               | 54              | nw.        | 17        | 87                                         | 81                                         | 55                                 |
| Trenton.....          | 30.04         | 30.44    | 7     | 29.54   | 23    | 11               | 49              | se.        | 23        | 80                                         | 72                                         | 54                                 |

§ Two directions and dates



## Daily Temperatures for April, 1921.

| Stations.                           | 1            | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean. |                   |                   |
|-------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|
| The Highlands and Kittatinny Valley |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Belvidere.....                      | Maximum..... | 69    | 60    | 74    | 82    | 83    | 80    | 71    | 60    | 70    | 55    | 52    | 66    | 72    | 75    | 72    | 75    | 70    | 61    | 72    | 78    | 75    | 69    | 77    | 81    | 79    | 74    | 75    | 67    | 64    | ..... | 71.0  |                   |                   |
|                                     | Minimum..... | 33    | 23    | 38    | 41    | 45    | 45    | 45    | 43    | 55    | 37    | 29    | 29    | 40    | 45    | 54    | 58    | 60    | 30    | 36    | 33    | 42    | 49    | 55    | 50    | 48    | 53    | 50    | 49    | 49    | 52    | ..... | 43.9              |                   |
| Charlotteburg.....                  | Maximum..... | 54    | 54    | 70    | 76    | 76    | 78    | 66    | 67    | 66    | 64    | 56    | 60    | 67    | 71    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 47    | 38    | 43    | 39    | 42    | 39    | 49    | ..... | 39.1  |                   |                   |
|                                     | Minimum..... | 32    | 20    | 38    | 35    | 51    | 46    | 39    | 38    | 50    | 35    | 27    | ..... | 33    | 36    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 66.3  |                   |                   |
| Dover.....                          | Maximum..... | 47    | 58    | 71    | 80    | 82    | 81    | 59    | 54    | 67    | 54    | 46    | 62    | ..... | 74    | 65    | 68    | 73    | 45    | 56    | 72    | 79    | 75    | 62    | 73    | 82    | 72    | 70    | 72    | 63    | 60    | ..... | 66.3              |                   |
|                                     | Minimum..... | 30    | 24    | 38    | 40    | 51    | 47    | 40    | 40    | 48    | 35    | 29    | 28    | 43    | 43    | 53    | 55    | 45    | 26    | 35    | 46    | 52    | 48    | 52    | 48    | 50    | 44    | 48    | 47    | 47    | 45    | 51    | .....             | 42.4              |
| Layton.....                         | Maximum..... | 60    | 57    | 72    | 81    | 82    | 80    | 70    | 58    | 70    | 55    | 55    | 63    | 71    | 77    | 69    | 69    | 66    | 50    | 62    | 71    | 78    | 75    | 67    | 72    | 80    | 80    | 80    | 75    | 71    | 69    | 65    | .....             | 68.7              |
|                                     | Minimum..... | 33    | 20    | 32    | 37    | 47    | 43    | 43    | 42    | 55    | 35    | 27    | 23    | 38    | 39    | 53    | 54    | 42    | 40    | 36    | 29    | 42    | 50    | 53    | 53    | 43    | 46    | 41    | 43    | 45    | 40    | ..... | 40.8              |                   |
| Newton.....                         | Maximum..... | 60    | 56    | 69    | 78    | 80    | 78    | 71    | 57    | 68    | 61    | 48    | 61    | 68    | 74    | 66    | 69    | 66    | 40    | 57    | 69    | 75    | 73    | 66    | 70    | 78    | 70    | 66    | 65    | 66    | 62    | ..... | 66.2              |                   |
|                                     | Minimum..... | 32    | 23    | 41    | 44    | 50    | 50    | 42    | 41    | 53    | 37    | 27    | 29    | 43    | 49    | 53    | 58    | 40    | 34    | 33    | 37    | 48    | 55    | 51    | 49    | 47    | 42    | 48    | 49    | 46    | 50    | ..... | 43.4              |                   |
| Phillipsburg.....                   | Maximum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 52    | 55    | 51    | 49    | 53    | 49    | 50    | 49    | 51    | ..... | .....             |                   |
|                                     | Minimum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 77    | 70    | 75    | 81    | 80    | 75    | 74    | 68    | 62    | ..... | .....             |                   |
| Sussex.....                         | Maximum..... | 61    | 54    | 73    | 80    | 83    | 83    | 74    | 59    | 71    | 58    | 51    | 64    | 72    | 77    | 68    | 72    | 69    | 49    | 62    | 72    | 77    | 78    | 68    | 73    | 82    | ..... | ..... | 41    | 44    | 53    | 49    | .....             | 69.1 <sup>b</sup> |
|                                     | Minimum..... | 34    | 21    | 34    | ..... | 46    | 44    | 44    | 41    | 53    | 34    | 29    | 25    | 36    | 46    | 54    | 59    | 39    | 36    | 35    | 33    | 43    | 49    | 52    | 47    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 41.5 <sup>c</sup> |                   |
| The Red Sandstone Plain.            |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Bergen Point.....                   | Maximum..... | 60    | 59    | 73    | 83    | 83    | 80    | 64    | 57    | 72    | 63    | ..... | 65    | 71    | 70    | 65    | 65    | 71    | 51    | 54    | 73    | 78    | 76    | 65    | 74    | 67    | 68    | 68    | 68    | 65    | 60    | ..... | 58.0 <sup>a</sup> |                   |
|                                     | Minimum..... | 37    | 27    | 39    | 44    | ..... | 51    | 42    | 41    | 52    | 39    | 30    | 30    | 43    | 49    | 53    | ..... | 51    | 39    | 39    | 37    | 49    | 53    | 51    | 50    | ..... | 50    | 50    | 51    | 51    | 50    | ..... | 44.4 <sup>c</sup> |                   |
| Boonton§§.....                      | Maximum..... | 50    | 58    | 70    | 76    | 77    | 78    | 48    | 62    | 69    | 55    | 51    | 63    | 69    | 63    | 62    | 72    | 71    | 45    | 57    | 71    | 76    | 73    | 58    | 73    | 77    | 73    | 71    | 75    | 68    | 65    | ..... | 66.4              |                   |
|                                     | Minimum..... | 35    | 24    | 35    | 40    | 45    | 45    | 42    | 41    | 42    | 37    | 31    | 27    | 39    | 42    | 52    | 57    | 54    | 39    | 37    | 37    | 44    | 52    | 48    | 48    | 45    | 46    | 44    | 44    | 45    | 51    | ..... | 42.4              |                   |
| Elizabeth.....                      | Maximum..... | 63    | 59    | 73    | 81    | 82    | 81    | 68    | 58    | 73    | 68    | 49    | 65    | 73    | 75    | 66    | 67    | 74    | 71    | 54    | 74    | 80    | 77    | 70    | 75    | 77    | 70    | 71    | 67    | 64    | 62    | ..... | 69.6              |                   |
|                                     | Minimum..... | 38    | 27    | 36    | 41    | 48    | 48    | 43    | 42    | 54    | 39    | 31    | 29    | 42    | 47    | 55    | 56    | 55    | 40    | 39    | 39    | 48    | 54    | 50    | 56    | 52    | 49    | 51    | 49    | 48    | 51    | ..... | 44.8              |                   |
| Flemington.....                     | Maximum..... | 63    | 59    | 77    | 80    | 80    | 79    | 75    | 60    | 74    | 69    | 51    | 66    | 73    | 74    | ..... | 78    | 75    | 69    | 61    | 73    | 78    | 74    | 72    | 78    | 82    | 74    | 71    | 71    | 65    | 58    | ..... | 71.0 <sup>a</sup> |                   |
|                                     | Minimum..... | 35    | 27    | 36    | 40    | 44    | 45    | 44    | 43    | 55    | 37    | 32    | 30    | 40    | 46    | 55    | 57    | 59    | 37    | 38    | 38    | 44    | 50    | 56    | 52    | 49    | 51    | 49    | 50    | 48    | 53    | ..... | 44.7              |                   |
| Highwood.....                       | Maximum..... | 59    | 56    | 71    | 75    | 80    | 79    | 61    | 55    | 71    | 61    | 47    | 63    | 70    | 70    | 63    | 65    | 67    | 46    | 52    | 72    | 77    | 75    | 63    | 72    | 76    | 70    | 68    | 72    | 62    | 63    | ..... | 66.0              |                   |
|                                     | Minimum..... | 37    | 24    | 36    | 42    | 46    | 49    | 42    | 42    | 54    | 38    | 36    | 25    | 44    | 43    | 53    | 55    | 45    | 38    | 37    | 35    | 49    | 53    | 47    | 48    | 47    | 47    | 43    | 49    | 47    | 52    | ..... | 43.4              |                   |
| Jersey City.....                    | Maximum..... | 59    | 59    | 74    | 79    | 80    | 79    | 61    | 58    | 71    | 69    | 52    | 66    | 71    | 73    | 61    | 66    | 73    | 68    | 54    | 74    | 79    | 74    | 65    | 77    | 72    | 73    | 72    | 72    | 65    | 58    | ..... | 68.5              |                   |
|                                     | Minimum..... | 38    | 31    | 41    | 48    | 51    | 53    | 39    | 43    | 53    | 43    | 32    | 34    | 46    | 51    | 52    | 55    | 54    | 42    | 34    | 42    | 53    | 57    | 54    | 50    | 53    | 53    | 51    | 55    | 55    | 51    | ..... | 47.3              |                   |
| Kearny.....                         | Maximum..... | 64    | 60    | 74    | 81    | 82    | 65    | 82    | 60    | 73    | 56    | 52    | 66    | 74    | 74    | 70    | 70    | 74    | 48    | 56    | 73    | 80    | 76    | 65    | 76    | 80    | 69    | 79    | 75    | 65    | 60    | ..... | 69.3              |                   |
|                                     | Minimum..... | 34    | 30    | 45    | 47    | 52    | 42    | 55    | 43    | 54    | 42    | 31    | 34    | 48    | 47    | 54    | 55    | 45    | 40    | 38    | 43    | 53    | 57    | 52    | 50    | 51    | 51    | 51    | 53    | 52    | 52    | ..... | 46.7              |                   |
| Lambertville.....                   | Maximum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             |                   |
|                                     | Minimum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             |                   |
| Little Falls.....                   | Maximum..... | 53    | 64    | 73    | 81    | 82    | 81    | 54    | 64    | 72    | 59    | 54    | 66    | 75    | 77    | 72    | 74    | 74    | 47    | 58    | 75    | 78    | 77    | 62    | 77    | 84    | 72    | 75    | 79    | 72    | 64    | ..... | 69.8              |                   |
|                                     | Minimum..... | 38    | 28    | 44    | 43    | 51    | 53    | 43    | 42    | 46    | 43    | 33    | 34    | 45    | 46    | 54    | 59    | 55    | 42    | 39    | 40    | 53    | 57    | 50    | 50    | 48    | 49    | 48    | 52    | 50    | 53    | ..... | 46.3              |                   |
| Newark.....                         | Maximum..... | 49    | 57    | 74    | 81    | 80    | 79    | 60    | 59    | 69    | 54    | 48    | 64    | 71    | 70    | 65    | 65    | 72    | 43    | 53    | 71    | 74    | 58    | 78    | 76    | 66    | 67    | 68    | 63    | 58    | ..... | 65.7  |                   |                   |
|                                     | Minimum..... | 37    | 31    | 46    | 60    | 53    | 55    | 40    | 41    | 49    | 36    | 31    | 35    | 46    | 50    | 54    | 54    | 43    | 38    | 38    | 43    | 52    | 58    | 51    | 50    | 55    | 51    | 52    | 53    | 54    | 51    | ..... | 46.8              |                   |
| New Brunswick.....                  | Maximum..... | 65    | 57    | 71    | 79    | 79    | 78    | 73    | 57    | 71    | 68    | 52    | 67    | 71    | 75    | 68    | 68    | 72    | 71    | 52    | 71    | 77    | 73    | 70    | 72    | 78    | 75    | 62    | 65    | 64    | 59    | ..... | 68.7              |                   |
|                                     | Minimum..... | 36    | 27    | 40    | 44    | 49    | 47    | 42    | 42    | 51    | 38    | 30    | 32    | 42    | 49    | 57    | 57    | 57    | 39    | 38    | 38    | 48    | 55    | 55    | 52    | 50    | 52    | 50    | 53    | 50    | 51    | ..... | 45.7              |                   |
| Paterson.....                       | Maximum..... | 60    | 60    | 75    | 82    | 85    | 84    | 65    | 57    | 73    | 64    | 55    | 65    | 73    | 75    | 67    | 72    | 73    | 58    | 53    | 73    | 81    | 78    | 70    | 74    | 80    | 73    | 72    | 75    | 70    | 62    | ..... | 70.3              |                   |
|                                     | Minimum..... | 38    | 28    | 40    | 44    | 50    | 52    | 43    | 42    | 53    | 41    | 33    | 32    | 49    | 46    | 53    | 57    | 55    | 40    | 39    | 40    | 51    | 56    | 55    | 50    | 48    | 50    | 49    | 52    | 51    | 52    | ..... | 46.3              |                   |
| Plainfield.....                     | Maximum..... | 62    | 60    | 72    | 80    | 80    | 80    | 59    | 58    | 72    | 59    | 51    | 63    | 71    | 76    | 65    | 70    | 72    | 54    | 55    | 73    | 79    | 75    | 63    | 74    | 79    | 69    | 68    | 64    | 67    | 58    | ..... | 67.6              |                   |
|                                     | Minimum..... | 34    | 24    | 34    | 39    | 44    | 46    | 41    | 42    | 55    | 36    | 31    | 26    | 37    | 45    | 54    | 56    | 54    | 40    | 37    | 34    | 41    | 47    | 47    | 52    | 45    | 47    | 46    | 49    | 50    | 50    | ..... | 42.8              |                   |
| Ridgefield.....                     | Maximum..... | 49    | 56    | 72    | 79    | 80    | 79    | 59    | 60    | 70    | 53    | 50    | 63    | 71    | 69    | 63    | 65    | 71    | 42    | 53    | 73    | 78    | 74    | 57    | 72    | 78    | 68    | 66    | 71    | 63    | 64    | ..... | 65.6              |                   |
|                                     | Minimum..... | 30    | 27    | 42    | 45    | 51    | 52    | 41    | 41    | 48    | 26    | 29    | 29    | 45    | 47    | 54    | 55    | 42    | 37    | 37    | 39    | 50    | 52    | 48    | 48    | 49    | 46    | 50    | 50    | 51    | ..... | 44.0  |                   |                   |
| Somerville.....                     | Maximum..... | 64    | 60    | 70    | 80    | 80    | 80    | 72    | 60    | 70    | 68    | 52    | 62    | 70    | 76    | 67    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist.

VOL. XXVI. TRENTON, N. J., MAY, 1921. No. 5.

### GENERAL SUMMARY.

Weather conditions during May were approximately normal in nearly all elements. The distribution of warmth above and below normal was of fair equality, and without approach to extremes of previous records. The coolest portions of the State were along the coast, and in the extreme northern counties, and in the latter frosts occurred as late as the 17th. The amount of rainfall was approximately normal, but nearly all of it occurred during the first half of the month, and the heaviest quantities were over the northeastern counties, remote from the general agricultural areas. This resulted in adverse conditions for crop growth, and was particularly accentuated by dry, northeasterly winds, a noticeably unusual weather condition. Low temperatures at night were a further unfavorable factor for crop growth. General outdoor pursuits were favored to a considerable extent by the dry weather, and farm work was somewhat ahead of the season. Although there has been an accumulating deficiency in precipitation during the year 1921 to date, there appears to be no lack of supply of ground waters as shown by lakes and streams.

Storm warnings were displayed along the coast on the 1st, 3d, 4th, 5th, and 23d.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 70.2°, which was 0.2° below the normal. The highest temperature was 96° at Woodbine on the 22d, and the lowest, 30° at Culvers Lake on the 17th. The highest monthly mean temperature was 62.9° at Little Falls, and the lowest, 57.2° at Charlotteburg. The greatest daily range of temperature was 45° at Indian Mills on the 18th and at Layton on the 21st.

The temperature departure from the normal for the year 1921 to date, by sections, is: The Highlands, +4.9°; Red Sandstone Plain, +4.9°; Southern Interior, +5.0°; Sea Coast, +4.4°.

### PRECIPITATION.

The average total precipitation of the State, as deduced from observations of 42 stations, was 4.17 inches, which was 0.21 inch above the normal. The greatest monthly amount was 6.44 inches at New Brunswick, and the least, 2.60 inches at Indian Mills. The greatest amount accumulated in any 24 consecutive hours was 2.48 inches at New Brunswick on the 5th. The average number of days on which .01 inch or more of rain fell was 10, which was one less than the normal. There was a trace of snow at Culvers Lake on the 5th.

The accumulated precipitation departure from the normal for the year 1921 to date, by sections is: The Highlands, -0.90 inch; Red Sandstone Plain, -1.04 inches; Southern Interior, -1.72 inches; Sea Coast, -3.08 inches.

### WIND.

The prevailing wind direction was from the northeast, with

an approximate velocity of 11 miles per hour, which was about normal. The highest velocity, sustained for 5 consecutive minutes, was 72 miles per hour from the northeast at Long Branch on the 5th. High winds were noted also on the 9th, 23d, and 29th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 14, which was 2 more than the normal; partly cloudy, 7, or 3 less than the normal; cloudy, 10, or one more than the normal. The approximate per cent. of possible sunshine was 56, and was somewhat below the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.00 inches, which was 0.07 inch above the normal. The highest reading was 30.45 inches at Ridgefield and Sandy Hook on the 20th, and the lowest, 29.60 inches at Atlantic City on the 4th.

The mean stage of the Delaware River at Trenton was 2.6 feet, which was 0.1 foot below the normal; the highest stage was 4.7 feet on the 5th.

Killing frost was noted at Culvers Lake on the 17th, and light frosts occurred at Dover on the 2d, and at Highwood, Layton, and Newton on the 17th. Thunderstorms occurred in some portions of the State on the 5th, 13th, 15th, 16th, 22d, 23d, 28th, and 29th. Solar halos were observed on the 3d, 11th, 12th, 15th, 16th, 21st, and 24th, and lunar halos on the 15th and 16th. Fog was noted on the 13th, 15th, and 20th; smoke on the 9th; and light haze on the 10th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, and 22d.

### COMPARATIVE DATA FOR MAY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 57.3         | 90       | 29      | 2.74           | 5.20      | 1.18   | .....        | .....          | .....   | .....                  |
| 1886..... | 58.8         | 87       | 36      | 6.07           | 8.46      | 4.15   | .....        | .....          | .....   | .....                  |
| 1887..... | 63.3         | 94       | 35      | 1.37           | 3.82      | 0.08   | .....        | .....          | 9       | 6                      |
| 1888..... | 58.6         | 90       | 26      | 4.92           | 6.48      | 3.00   | .....        | .....          | 18      | 16                     |
| 1889..... | 62.3         | 94       | 32      | 4.09           | 6.60      | 2.43   | .....        | .....          | 11      | 12                     |
| 1890..... | 60.7         | 87       | 33      | 4.24           | 7.17      | 2.60   | .....        | .....          | 11      | 12                     |
| 1891..... | 59.5         | 93       | 28      | 2.97           | 5.39      | 1.78   | 9            | 11             | 11      | 9                      |
| 1892..... | 60.1         | 90       | 30      | 5.04           | 6.52      | 3.26   | 8            | 13             | 10      | 13                     |
| 1893..... | 59.4         | 95       | 29      | 4.07           | 6.38      | 2.55   | 13           | 8              | 10      | 10                     |
| 1894..... | 61.4         | 93       | 30      | 7.72           | 15.61     | 3.57   | 11           | 9              | 11      | 13                     |
| 1895..... | 60.9         | 102      | 28      | 2.85           | 3.95      | 1.66   | 12           | 12             | 7       | 8                      |
| 1896..... | 65.3         | 98       | 29      | 3.21           | 4.54      | 1.62   | 10           | 12             | 9       | 10                     |
| 1897..... | 60.6         | 87       | 29      | 5.68           | 9.11      | 1.71   | 11           | 12             | 8       | 12                     |
| 1898..... | 58.5         | 93       | 29      | 7.00           | 9.26      | 3.92   | 8            | 8              | 15      | 18                     |
| 1899..... | 61.1         | 94       | 29      | 1.92           | 3.15      | 1.15   | 12           | 12             | 7       | 9                      |
| 1900..... | 60.9         | 98       | 26      | 4.71           | 7.33      | 2.53   | 13           | 7              | 11      | 10                     |
| 1901..... | 58.6         | 90       | 29      | 5.60           | 8.13      | 3.10   | 9            | 9              | 13      | 16                     |
| 1902..... | 60.3         | 95       | 29      | 2.04           | 4.63      | 1.11   | 15           | 11             | 5       | 7                      |
| 1903..... | 62.7         | 98       | 21      | 0.59           | 1.32      | 0.08   | 16           | 10             | 5       | 4                      |
| 1904..... | 62.8         | 97       | 31      | 2.60           | 6.69      | 1.01   | 17           | 9              | 5       | 8                      |
| 1905..... | 61.4         | 89       | 22      | 1.71           | 3.94      | 0.42   | 12           | 11             | 8       | 8                      |
| 1906..... | 61.0         | 94       | 24      | 4.21           | 6.28      | 2.37   | 16           | 8              | 7       | 10                     |
| 1907..... | 55.4         | 91       | 22      | 5.05           | 8.09      | 2.51   | 12           | 9              | 10      | 12                     |
| 1908..... | 61.6         | 95       | 29      | 7.10           | 9.99      | 4.39   | 9            | 10             | 12      | 13                     |
| 1909..... | 60.0         | 91       | 27      | 2.30           | 4.84      | 0.79   | 10           | 11             | 10      | 9                      |
| 1910..... | 60.0         | 94       | 27      | 2.54           | 4.25      | 1.48   | 10           | 10             | 11      | 12                     |
| 1911..... | 64.5         | 99       | 22      | 1.37           | 3.84      | 0.31   | 14           | 11             | 6       | 7                      |
| 1912..... | 62.0         | 92       | 31      | 4.09           | 6.47      | 2.79   | 11           | 11             | 9       | 11                     |
| 1913..... | 60.3         | 94       | 25      | 3.45           | 4.86      | 2.53   | 15           | 7              | 9       | 9                      |
| 1914..... | 63.1         | 98       | 30      | 2.93           | 5.09      | 0.95   | 14           | 9              | 7       | 10                     |
| 1915..... | 58.1         | 98       | 30      | 3.82           | 6.15      | 2.00   | 13           | 7              | 11      | 13                     |
| 1916..... | 61.1         | 90       | 32      | 3.48           | 5.27      | 2.14   | 12           | 11             | 8       | 12                     |
| 1917..... | 54.0         | 90       | 22      | 3.83           | 6.83      | 2.08   | 10           | 10             | 11      | 11                     |
| 1918..... | 64.6         | 93       | 31      | 4.94           | 7.59      | 2.74   | 14           | 10             | 7       | 12                     |
| 1919..... | 60.9         | 95       | 31      | 4.98           | 7.68      | 3.06   | 14           | 6              | 11      | 12                     |
| 1920..... | 57.4         | 89       | 25      | 3.00           | 5.23      | 1.61   | 15           | 8              | 8       | 10                     |
| 1921..... | 60.2         | 96       | 30      | 4.17           | 6.44      | 2.60   | 14           | 7              | 10      | 10                     |



## Climatological Data for May, 1921.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |                 |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|-----------------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest.         | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere††                                 | Warren     | 289              | 30                       | 60.8 <sup>a</sup>             | +0.1                       | 90              | 22    | 39              | 17    | 36                        | 2.99   | -0.84                      | 1.12                  | 0                          | 6                              | 23     | 0           | 8                             | .....      | Samuel J. Hixson.         |
| Charlotteburg                               | Passaic    | 719              | 29                       | 57.2 <sup>b</sup>             | -0.3                       | 89              | 22    | 32              | 24    | 43                        | 3.94   | -0.26                      | 1.40                  | 0                          | 7                              | 21     | 6           | 4                             | ne.        | George S. Briggs.         |
| Culvers Lake††                              | Sussex     | 848              | 20                       | 57.9 <sup>b</sup>             | -0.7                       | 86 <sup>a</sup> | 31    | 37              | 17    | 37                        | 3.75   | +0.12                      | 1.25                  | T                          | 9                              | 16     | 5           | 10                            | ne.        | Brice E. Riker.           |
| Dover                                       | Morris     | 600              | 37                       | 57.9 <sup>b</sup>             | -0.7                       | 86 <sup>a</sup> | 31    | 37              | 2     | 37                        | 4.21   | +0.27                      | 1.18                  | 0                          | 11                             | 5      | 16          | 10                            | ne.        | William C. Harris.        |
| Layton                                      | Sussex     | 480              | 20                       | 58.1                          | +0.1                       | 91              | 22    | 35              | 2†    | 45                        | 3.26   | +0.01                      | 1.03                  | 0                          | 10                             | 14     | 6           | 11                            | .....      | A. M. Depue.              |
| Newton                                      | Sussex     | 769              | 38                       | 59.5                          | 0.0                        | 88              | 22    | 38              | 17    | 33                        | 2.85   | -1.08                      | 0.99                  | 0                          | 10                             | 17     | 7           | 7                             | nw.        | Irving G. Kern.           |
| Phillipsburg                                | Warren     | 363              | 39                       | 60.6 <sup>b</sup>             | -0.7                       | 90              | 22    | 40 <sup>b</sup> | 17    | 35 <sup>b</sup>           | .....  | .....                      | .....                 | 0                          | .....                          | .....  | .....       | .....                         | .....      | Mrs. D. Wilson Smith.     |
| Sussex                                      | Sussex     | 442              | 27                       | 60.5 <sup>d</sup>             | +0.6                       | 92              | 22    | 36              | 2†    | 40                        | 3.64   | -0.08                      | 1.32                  | 0                          | 7                              | 15     | 4           | 12                            | sw.        | Rev. W. August George     |
| Means and extremes.                         |            |                  |                          | 59.2                          | -0.1                       | 92              | 22    | 30              | 17    | 45                        | 3.52   | -0.27                      | 1.40                  | 0                          | 9                              | 16     | 6           | 9                             | ne.        |                           |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††                              | Hudson     | 37               | 24                       | 60.8                          | +0.5                       | 89              | 22    | 41              | 17    | 35                        | 4.65   | +0.69                      | 1.60                  | 0                          | 7                              | 7      | 18          | 6                             | se.        | William H. Mitchell.      |
| Boonton                                     | Morris     | 400              | 31                       | 59.0                          | +1.3                       | 88              | 22    | 36              | 2     | 40                        | 4.47   | +0.41                      | 1.55                  | 0                          | 11                             | 22     | 4           | 5                             | ne.        | J. W. Demmers.            |
| Chatham                                     | Morris     | 185              | 17                       | 59.0                          | +1.3                       | 88              | 22    | 36              | 2     | 40                        | 5.45   | +1.95                      | 2.06                  | 0                          | 10                             | 17     | 7           | 7                             | .....      | Paul Molitor, Sr.         |
| Elizabeth                                   | Union      | 45               | 42                       | 61.0                          | -1.0                       | 90              | 22    | 39              | 17    | 40                        | 5.14   | +1.32                      | 1.78                  | 0                          | 9                              | 11     | 10          | 10                            | ne.        | L. B. Bonnett.            |
| Flemington                                  | Hunterdon  | 140              | 35                       | 61.2                          | -0.1                       | 90              | 22    | 40              | 2†    | 37                        | 3.29   | -0.73                      | 1.18                  | 0                          | 6                              | 18     | 5           | 8                             | e.         | Hiram E. Deats.           |
| Highwood                                    | Bergen     | 90               | 33                       | 59.0                          | -0.3                       | 88              | 22    | 36              | 2     | 36                        | 4.46   | +0.63                      | 1.63                  | 0                          | 9                              | 13     | 9           | 9                             | sw.        | Charles J. Bates.         |
| Jersey City                                 | Hudson     | 10               | 24                       | 62.2                          | +0.6                       | 92              | 22    | 43              | 17    | 30                        | 4.23   | +0.65                      | 1.49                  | 0                          | 12                             | 10     | 14          | 7                             | s.         | S. K. Pearson, Jr.        |
| Kearny                                      | Hudson     | 100              | 2                        | 62.6                          | .....                      | 90              | 22    | 42              | 17    | 31                        | 4.32   | .....                      | 1.56                  | 0                          | 8                              | 14     | 8           | 9                             | ne.        | Wm. J. Chandler, M. D.    |
| Lambertville                                | Hunterdon  | 300              | 34                       | 62.9                          | +3.2                       | 90              | 22    | 39              | 2     | 39                        | 5.14   | +1.35                      | 1.76                  | 0                          | 11                             | 17     | 5           | 9                             | nw.        | Thomas R. Hunt.           |
| Little Falls                                | Passaic    | 180              | 18                       | 62.9                          | +0.9                       | 90              | 22    | 45              | 1†    | 27                        | 5.19   | +1.22                      | 1.12                  | 0                          | 10                             | 13     | 7           | 11                            | sw.        | Montclair Water Co.       |
| Newark                                      | Essex      | 159              | 79                       | 62.0                          | +0.9                       | 90              | 22    | 45              | 1†    | 27                        | 5.19   | +1.22                      | 1.12                  | 0                          | 10                             | 13     | 7           | 11                            | sw.        | Prof. William Wiener.     |
| New Brunswick                               | Middlesex  | 110              | 68                       | 60.5                          | -0.4                       | 87              | 22    | 41              | 17    | 36                        | 6.44   | +2.55                      | 2.48                  | 0                          | 9                              | 17     | 8           | 6                             | e.         | N. J. Experiment Station. |
| New Milford††                               | Bergen     | 80               | 2                        | 62.0                          | +0.5                       | 93              | 22    | 41              | 2     | 35                        | 3.82   | -0.65                      | 1.64                  | 0                          | 7                              | 2      | 2           | 27                            | sw.        | Hackensack Water Co.      |
| Paterson                                    | Passaic    | 110              | 33                       | 59.2                          | -1.0                       | 89              | 22    | 38              | 3†    | 40                        | 4.72   | +0.80                      | 1.81                  | 0                          | 11                             | 10     | 12          | 9                             | sw.        | Marion T. Probert.        |
| Plainfield                                  | Somerset   | 70               | 6                        | 59.4                          | .....                      | 89              | 22    | 39              | 2     | 33                        | 4.72   | .....                      | 1.84                  | 0                          | 13                             | 15     | 8           | 8                             | nw.        | E. D. Pearson.            |
| Ridgefield††                                | Bergen     | 70               | 6                        | 59.4                          | .....                      | 89              | 22    | 39              | 2     | 33                        | 4.72   | .....                      | 1.84                  | 0                          | 13                             | 15     | 8           | 8                             | nw.        | George P. Kirsten.        |
| Somerville                                  | Somerset   | 74               | 38                       | 61.5                          | +0.7                       | 90              | 22    | 39              | 7     | 37                        | 4.46   | +0.61                      | 1.68                  | 0                          | 7                              | 14     | 3           | 14                            | w.         | Kenneth Bauer.            |
| South Orange                                | Essex      | 200              | 51                       | 61.5                          | +1.5                       | 90              | 22    | 41              | 17    | 30                        | 5.44   | +1.92                      | 2.10                  | 0                          | 9                              | 19     | 4           | 8                             | nw.        | Wm. H. Meeder.            |
| Woodcliff Lake††                            | Bergen     | 365              | 51                       | 60.4                          | +1.1                       | 85              | 22    | 43              | 17    | 25                        | 3.45   | +0.27                      | 1.23                  | 0                          | 11                             | 6      | 13          | 12                            | s.         | Hackensack Water Co.      |
| New York, N. Y.                             |            |                  |                          | 61.0                          | +0.5                       | 93              | 22    | 36              | 2     | 40                        | 4.74   | +0.91                      | 2.48                  | 0                          | 9                              | 14     | 8           | 9                             | sw.        | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 61.0                          | +0.5                       | 93              | 22    | 36              | 2     | 40                        | 4.74   | +0.91                      | 2.48                  | 0                          | 9                              | 14     | 8           | 9                             | sw.        |                           |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton                                   | Cumberland | 30               | 40                       | 62.4                          | -1.6                       | 90              | 22    | 42              | 17    | 36                        | 2.73   | -1.11                      | 0.90                  | 0                          | 9                              | 18     | 5           | 8                             | ne.        | Henry A. Jorden.          |
| Burlington                                  | Burlington | 12               | 35                       | 62.0                          | +0.1                       | 90              | 22    | 41              | 5     | 34                        | 3.81   | -0.47                      | 1.90                  | 0                          | 11                             | 20     | 5           | 6                             | ne.        | D. S. B. McCoy.           |
| Camp Dix                                    | Burlington | 127              | 3                        | 59.8                          | .....                      | 88              | 22    | 38              | 25    | 39                        | 4.84   | .....                      | 2.09                  | 0                          | 14                             | 8      | 0           | 23                            | ne.        | U. S. Army.               |
| Clayton                                     | Gloucester | 130              | 28                       | 60.2                          | -1.5                       | 88              | 22    | 40              | 7†    | 39                        | 4.45   | +1.12                      | 1.80                  | 0                          | 9                              | 19     | 2           | 10                            | sw.        | Marvin E. Porch.          |
| Hammonton                                   | Atlantic   | 103              | 20                       | 59.9                          | -1.4                       | 88              | 22    | 38              | 24    | 39                        | 4.92   | +0.64                      | 2.08                  | 0                          | 12                             | 12     | 11          | 8                             | e.         | Charles M. Phillips.      |
| Hightstown                                  | Mercer     | 120              | 29                       | 59.9                          | -1.4                       | 88              | 22    | 38              | 24    | 39                        | 5.07   | +1.12                      | 1.93                  | 0                          | 8                              | 19     | 3           | 9                             | ne.        | E. H. Savige, Jr.         |
| Imlaystown                                  | Monmouth   | 115              | 33                       | 59.8                          | -2.1                       | 90              | 22    | 39              | 2†    | 41                        | 5.01   | +1.39                      | 1.86                  | 0                          | 11                             | 21     | 1           | 9                             | ne.        | Wm. R. Hendrickson.       |
| Indian Mills††                              | Burlington | 76               | 32                       | 59.8                          | -2.3                       | 91              | 22    | 36              | 18    | 45                        | 2.60   | -0.64                      | 0.97                  | 0                          | 12                             | 13     | 9           | 9                             | e.         | James M. Armstrong.       |
| Lakewood                                    | Ocean      | 54               | 17                       | 59.1                          | -1.1                       | 89              | 22    | 37              | 25    | 37                        | 5.02   | +1.62                      | 1.65                  | 0                          | 12                             | 11     | 5           | 15                            | ne.        | R. W. Holman.             |
| Moorestown††                                | Burlington | 75               | 58                       | 61.0 <sup>j</sup>             | -0.3                       | 92              | 22    | 41 <sup>b</sup> | 17    | 37                        | 4.14   | +0.67                      | 1.07                  | 0                          | 11                             | 19     | 4           | 8                             | .....      | Stokes Seed Farms Co.     |
| Northfield                                  | Atlantic   | 25               | 14                       | 59.0                          | .....                      | 89              | 22    | 41              | 2     | 38                        | 3.38   | -0.25                      | 1.05                  | 0                          | 9                              | 14     | 8           | 9                             | .....      | William L. Flick.         |
| Pleasantville††                             | Atlantic   | 26               | 23                       | 59.0                          | .....                      | 89              | 22    | 41              | 2     | 38                        | 3.38   | -0.25                      | 1.05                  | 0                          | 9                              | 14     | 8           | 9                             | .....      | Lincoln Van Gilder.       |
| Trenton                                     | Mercer     | 190              | 49                       | 60.3                          | -0.8                       | 88              | 22    | 42              | 17    | 32                        | 4.04   | +0.52                      | 1.48                  | 0                          | 11                             | 5      | 13          | 13                            | ne.        | U. S. Weather Bureau.     |
| Tuckertont†                                 | Ocean      | 23               | 28                       | 59.0                          | -0.9                       | 92              | 22    | 36              | 18    | 40                        | 3.01   | -0.73                      | 1.71                  | 0                          | 9                              | 11     | 11          | 9                             | sw.        | Frank R. Austin.          |
| Vineland                                    | Cumberland | 109              | 52                       | 62.2                          | -0.1                       | 89              | 22    | 41              | 2     | 38                        | 3.38   | -0.25                      | 1.05                  | 0                          | 9                              | 14     | 8           | 9                             | ne.        | H. C. Himes.              |
| Woodbine                                    | Cape May   | 43               | 28                       | 59.0                          | .....                      | 89              | 22    | 41              | 2     | 38                        | 3.38   | -0.25                      | 1.05                  | 0                          | 9                              | 14     | 8           | 9                             | sw.        | W. J. Zechman.            |
| Philadelphia, Pa.                           | Cape May   | 117              | 51                       | 62.4                          | +0.2                       | 90              | 22    | 45              | 6     | 32                        | 3.42   | +0.22                      | 1.88                  | 0                          | 11                             | 7      | 10          | 14                            | sw.        | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 60.5                          | -1.1                       | 96              | 22    | 36              | 18    | 45                        | 4.02   | -0.29                      | 2.09                  | 0                          | 11                             | 14     | 6           | 11                            | ne.        |                           |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park                                 | Monmouth   | 22               | 32                       | 57.6                          | +0.1                       | 84              | 23    | 45              | 2     | 33                        | 3.27   | -0.31                      | 1.12                  | 0                          | 11                             | 12     | 11          | 8                             | ne.        | Information Bureau.       |
| Atlantic City                               | Atlantic   | 16               | 48                       | 57.6                          | +0.1                       | 84              | 23    | 45              | 2     | 33                        | 3.27   | +0.37                      | 1.34                  | 0                          | 10                             | 11     | 8           | 12                            | ne.        | U. S. Weather Bureau.     |
| Cape May City                               | Cape May   | 17               | 37                       | 58.8                          | +0.2                       | 85              | 23    | 44              | 6     | 34                        | 3.35   | +0.36                      | 0.93                  | 0                          | 11                             | 13     | 5           | 13                            | s.         | U. S. Weather Bureau.     |
| Long Branch                                 | Monmouth   | 25               | 14                       | 57.4                          | -0.8                       | 90              | 22    | 43              | 25    | 31                        | 4.17   | +0.41                      | 1.07                  | 0                          | 10                             | 19     | 5           | 7                             | s.         | William D. Martin, Jr.    |
| Sandy Hook                                  | Monmouth   | 22               | 23                       | 59.0                          | +0.5                       | 86              | 22    | 45              | 5     | 24                        | 4.16   | +0.46                      | 1.07                  | 0                          | 11                             | 4      | 15          | 12                            | ne.        | U. S. Weather Bureau.     |
| Means and extremes.                         |            |                  |                          | 58.2                          | 0.0                        | 90              | 22    | 43              | 25    | 34                        | 3.66   | +0.26                      | 1.34                  | 0                          | 10                             | 12     | 9           | 10                            | ne.        |                           |
| For the State                               |            |                  |                          | 60.2                          | -0.2                       | 96              | 22    | 30              | 17    | 45                        | 4.17   | +0.21                      | 2.48                  | 0                          | 10                             | 14     | 7           | 10                            | ne.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



## Daily Precipitation for May, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     | Total. |      |
|--------------------------------------------|-----------------|---------------|-----|-----|--------|------|-----|-----|----|----|----|----|-----|---------|------|------|-----|-----|----|----|----|----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|--------|------|
|                                            |                 | 1             | 2   | 3   | 4      | 5    | 6   | 7   | 8  | 9  | 10 | 11 | 12  | 13      | 14   | 15   | 16  | 17  | 18 | 19 | 20 | 21 | 22  | 23   | 24  | 25  | 26  | 27  | 28   | 29  | 30  | 31  |        |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     |        |      |
| Belvidere.....                             | Delaware.....   | .46           |     |     |        | 1.12 |     |     |    |    |    |    |     | .74     |      | .11  |     |     |    |    |    |    |     | *    | .56 |     |     |     |      |     |     |     | 2.99   |      |
| Charlotteburg.....                         | Passaic.....    | .35           |     |     |        | 1.40 |     |     |    |    |    |    |     | 1.34    | .03  | T.   |     |     |    |    |    |    |     | .34  | .57 |     |     |     |      | .26 |     |     | 3.94   |      |
| Culvers Lake.....                          | Delaware.....   | .35           |     |     | T.     | .92  | .01 |     |    |    |    |    |     | 1.25    | .09  | T.   |     |     |    |    |    |    |     | .40  | .65 | T.  |     |     |      | .07 | .01 |     | 3.75   |      |
| Dover.....                                 | Passaic.....    | .15           |     |     | .50    | .90  | .02 |     |    |    |    |    |     | 1.18    | .02  |      | .05 |     |    |    |    |    |     | .75  | .60 |     |     |     |      |     |     |     | 4.21   |      |
| Layton.....                                | Delaware.....   | .18           |     |     | .06    | .69  | .04 |     |    |    |    |    |     | 1.03    | .03  |      | .05 |     |    |    |    |    |     | .45  | .65 |     |     |     | .08  |     |     |     | 3.26   |      |
| Newton.....                                | Delaware.....   | .28           | T.  |     | .01    | .99  | .03 |     |    |    |    |    |     | .82     | .04  |      | .02 |     |    |    |    |    |     | .12  | .52 |     |     |     |      |     | .02 |     | 2.85   |      |
| Phillipsburg.....                          | do.....         | .15           |     |     | * 1.68 |      |     |     |    |    |    |    | .03 | .71     | .03  |      | .05 |     |    |    |    |    |     | .07  | .02 | .35 |     |     |      |     |     |     | \$     |      |
| Sussex.....                                | Hudson.....     | .40           |     |     | .04    | 1.32 |     |     |    |    |    |    |     | .69     |      |      |     |     |    |    |    |    |     | .57  | .62 |     |     | T.  |      |     |     |     | 3.64   |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     |        |      |
| Bergen Point.....                          | Coast.....      | .43           |     |     | .45    | 1.24 | .05 |     |    |    |    |    |     | 1.60    |      | T.   |     |     |    |    |    |    |     | .30  | .58 |     |     |     | T.   | T.  |     |     | 4.65   |      |
| Boonton III.....                           | Passaic.....    | .51           | T.  |     |        | 1.55 | T.  |     |    | T. |    |    |     | 1.30    | .06  |      | .01 |     |    |    |    |    |     | .20  | .09 | .05 | .61 |     |      | .08 | .01 |     | 4.47   |      |
| Chatham II.....                            | do.....         | .34           | T.  |     |        | 2.06 | .05 |     |    |    |    |    |     | 1.85    | .21  |      | .01 |     |    |    |    |    |     | .18  | .14 |     | .59 |     |      | T.  |     | .02 | 5.45   |      |
| Elizabeth.....                             | Coast.....      | .29           |     |     | T.     | 1.78 | .07 |     |    |    |    |    |     | 1.13    | .55  |      | .42 |     |    |    |    |    |     | .14  | .66 |     |     |     | T.   | T.  |     |     | 5.14   |      |
| Flemington.....                            | Raritan.....    | .37           |     |     | .34    | 1.18 |     |     | T. |    |    |    |     | .91     |      |      |     |     |    |    |    |    | .10 | .42  |     |     |     |     | T.   | T.  |     |     | 3.29   |      |
| Highwood.....                              | Hackensack..... | .08           |     |     | T.     | 1.63 | .06 | .02 |    |    |    |    |     | 1.35    | .13  |      | .07 |     |    |    |    |    |     | .24  | .88 |     |     |     | T.   |     |     |     | 4.46   |      |
| Jersey City.....                           | Coast.....      | .20           |     |     | .09    | 1.49 | .34 | .02 |    |    |    |    |     | .08     | 1.07 | .14  |     | .09 |    |    |    |    |     | .14  | T.  | .56 | .01 |     |      | T.  | T.  |     | 4.23   |      |
| Kearny.....                                | Delaware.....   | .09           |     |     | * 1.56 | .08  |     |     |    |    |    |    |     | 1.53    | .32  |      | T.  |     |    |    |    |    |     | .14  | .60 |     |     |     |      | T.  | T.  |     | 4.32   |      |
| Lambertville.....                          | Delaware.....   |               |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     |        |      |
| Little Falls III.....                      | Passaic.....    | .43           |     |     |        | 1.43 | .15 |     |    |    |    |    |     | 1.76    | .20  |      |     |     |    |    |    |    |     | .10  | .14 | .11 | .62 |     |      | .08 | .12 |     |        | 5.14 |
| Newark**.....                              | Coast.....      | .14           |     |     | 1.12   | .31  | T.  | T.  |    |    |    |    |     | 1.04    | .75  | .09  | .08 |     |    |    |    |    |     | 1.07 | .51 |     |     |     | T.   |     | .05 |     | 5.19   |      |
| New Brunswick.....                         | Raritan.....    | .94           |     |     | .30    | 2.48 | T.  |     |    |    |    |    |     | 1.47    | .51  |      | .23 |     |    |    |    |    |     | .07  | .42 |     |     |     | T.   |     | .02 |     | 6.44   |      |
| New Milford.....                           | Hackensack..... |               |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     |        |      |
| Paterson.....                              | Passaic.....    | .25           |     |     | T.     | 1.33 | .04 |     |    |    |    |    |     | 1.64    | .18  |      |     |     |    |    |    |    |     | .26  |     |     |     |     |      | T.  |     |     | 3.82   |      |
| Plainfield.....                            | Raritan.....    | .24           |     |     | .43    | 1.81 | .05 |     | T. |    |    |    |     | .01     | 1.35 | .10  | .02 |     |    |    |    |    |     | .14  | .55 |     |     |     | T.   |     | .02 |     | 4.72   |      |
| Ridgefield**.....                          | Hackensack..... | .53           |     |     | * 1.21 | .14  | .04 |     |    |    |    |    |     | * 1.34  | .15  |      | .11 |     |    |    |    |    |     | .24  | .09 | .64 |     |     |      |     |     |     | 4.72   |      |
| Somerville.....                            | Raritan.....    | .42           | .02 |     | .24    | 1.88 |     |     |    |    |    |    |     | T.      | 1.43 |      |     |     |    |    |    |    |     | .12  | .35 |     |     |     | T.   |     |     |     | 4.46   |      |
| South Orange.....                          | Rahway.....     | .18           |     |     | .30    | 2.10 | .03 |     |    |    |    |    |     | .03     | 1.83 | T.   |     |     |    |    |    |    |     | .16  | .80 |     |     |     | T.   |     | .01 |     | 5.44   |      |
| Woodcliff Lake.....                        | Hackensack..... |               |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     |        |      |
| New York, N. Y***                          | Coast.....      | .18           |     |     | 1.01   | .32  | .03 |     |    |    |    |    |     | .18     | .76  | .17  | .07 |     |    |    |    |    |     | .04  | .10 | .59 |     |     |      | T.  | T.  |     |        | 3.45 |
| <i>The Southern Interior.</i>              |                 |               |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     |        |      |
| Bridgeton.....                             | Coast.....      | .10           |     |     | .90    | .20  |     |     |    |    |    |    |     | .60     | .20  | .05  | .05 |     |    |    |    |    |     | .05  | .18 |     |     |     |      | .45 |     |     | 2.73   |      |
| Burlington.....                            | Delaware.....   | .23           | .02 |     | 1.90   | .40  |     |     |    |    |    |    |     | * .78   | .08  | .21  |     |     |    |    |    |    |     |      | .14 |     |     |     |      | .02 | .03 |     | 3.81   |      |
| Camp Dix III.....                          | Delaware.....   | .47           | .02 | .04 | 2.09   | .03  | T.  | .01 |    |    |    |    |     | 1.07    | .11  | .57  |     |     |    |    |    |    |     | .04  | .02 | .17 |     |     |      | .03 | .17 |     | 4.84   |      |
| Clayton.....                               | Maurice.....    | .13           | T.  |     | 1.80   | .19  | .03 |     |    |    |    |    |     | .73     | .80  | .10  | .10 |     |    |    |    |    |     |      | .12 | .12 |     |     |      |     | .55 |     | 4.45   |      |
| Farmington.....                            | Mullica.....    | .17           |     |     | 2.08   | .55  | .02 |     |    |    |    |    |     | .05     | .83  | .09  | .01 | .05 |    |    |    |    |     |      | .17 | .15 |     |     |      |     | .75 |     | 4.92   |      |
| Fightstown.....                            | Raritan.....    | .72           |     |     | .85    | .80  |     |     |    |    |    |    |     | 1.90    | .13  | .21  |     |     |    |    |    |    |     | .03  | .43 |     |     |     | T.   |     |     |     | 5.07   |      |
| Maytown.....                               | Delaware.....   | .44           | .01 |     | 1.12   | 1.36 | .03 |     |    |    |    |    |     | 1.32    | .10  | .16  |     |     |    |    |    |    |     | .10  | .35 |     |     |     | .02  |     |     |     | 5.01   |      |
| Indian Mills.....                          | Mullica.....    | .15           | .02 |     | .97    | .40  | .02 |     |    |    |    |    |     | T. .60  | .10  | .04  | .03 |     |    |    |    |    |     | T.   | .02 | .15 |     |     | T.   | .10 |     |     | 2.60   |      |
| Lakewood.....                              | Metedeconk..... | .42           |     |     | 1.65   | .45  | .05 | .04 |    |    |    |    |     | T. 1.14 | .28  | T.   | .12 |     |    |    |    |    |     | .20  | .38 |     |     | .27 | .02  |     |     |     | 5.02   |      |
| Loosestown.....                            | Delaware.....   | \$            |     |     | \$     | .40  |     |     |    |    |    |    |     | .70     | .10  | .30  |     |     |    |    |    |    |     | .01  | .09 |     |     | .01 |      |     |     |     | \$     |      |
| Northfield.....                            | Coast.....      | .02           |     |     | .95    | .01  | .06 |     |    |    |    |    |     | .65     | 1.05 | .04  |     |     |    |    |    |    |     | .08  | .11 |     |     |     | 1.07 | .10 |     |     | 4.14   |      |
| Pleasantville.....                         | Coast.....      | .13           |     | T.  | .84    | .03  | .11 |     |    |    |    |    |     | .43     | .30  | .92  |     |     |    |    |    |    |     | .08  | .07 |     |     |     | .25  | .03 |     |     | 3.19   |      |
| Princeton***                               | Delaware.....   | .51           |     | T.  | 1.47   | .02  | T.  | T.  | T. |    |    |    |     | .77     | .29  | .03  | .17 |     |    |    |    |    | T.  | .02  | .23 |     |     |     | .01  | .52 | T.  |     | 4.04   |      |
| Rockertown.....                            | Coast.....      | .09           |     |     | .56    | .12  | .16 |     |    |    |    |    |     | .09     | .78  | .93  |     |     |    |    |    |    |     |      | .13 |     |     |     | .20  | .04 |     |     | 3.01   |      |
| Union.....                                 | Maurice.....    | .09           |     |     | 1.05   | .51  |     |     |    |    |    |    |     | .62     | .18  | .06  | .05 |     |    |    |    |    |     |      | .12 | .45 |     |     | .70  |     |     |     | 3.38   |      |
| Woodbine.....                              | Coast.....      | .09           |     |     | .45    | .07  | .08 |     |    |    |    |    |     | .45     | .49  |      |     |     |    |    |    |    |     |      | .18 |     |     |     | .01  | .07 | T.  |     | \$     |      |
| Philadelphia, Pa.                          | Delaware.....   | .19           |     | T.  | 1.88   | .10  | T.  |     |    |    |    |    |     | .79     | .05  | .01  | .11 |     |    |    |    |    |     | .11  | .10 |     |     |     | .01  | .07 | T.  |     | 3.42   |      |
| <i>The Sea Coast.</i>                      |                 |               |     |     |        |      |     |     |    |    |    |    |     |         |      |      |     |     |    |    |    |    |     |      |     |     |     |     |      |     |     |     |        |      |
| Asbury Park.....                           | Coast.....      | .37           |     | .03 | .93    | .01  | .11 |     |    |    |    |    |     | 1.12    |      | .15  |     |     |    |    |    |    |     | .03  | .50 |     |     |     | .01  |     | .01 |     | 3.27   |      |
| Atlantic City.....                         | do.....         | .02           |     | .06 | .87    | T.   | .27 |     |    |    |    |    |     | .36     | .23  | 1.31 |     | .15 |    |    |    |    |     | .12  | .06 |     |     |     |      | .07 |     |     | 3.37   |      |
| Bay May City.....                          | do.....         | .07           |     | .02 | .71    | .44  | .15 |     |    |    |    |    |     | .12     | .41  | .93  |     | .15 |    |    |    |    |     | .12  | .06 |     |     |     |      | .06 |     |     | 3.35   |      |
| Long Branch.....                           | do.....         | .50           |     |     | .90    | .78  | .09 |     |    |    |    |    |     | .17     | 1.07 | .10  | T.  | .10 |    |    |    |    |     | .17  | .29 |     |     |     |      | .06 |     |     | 4.17   |      |
| Long Branch**.....                         | do.....         | .69           |     |     | .94    | .04  | .04 |     |    |    |    |    |     | .18     | .90  | .18  |     | .45 |    |    |    |    |     | .23  | .40 |     |     |     | .11  |     |     |     | 4.16   |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Amount recorded on April 30, and so published. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture.                               |                                         | Sun-                             |       |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------------------------------------|-----------------------------------------|----------------------------------|-------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            | Relative humidity, per cent. at 8 a. m. | Relative humidity, per cent. at 8 p. m. | Percentage of possible sunshine. |       |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. |                                         |                                         |                                  | Date. |
| Atlantic City.....    | 30.01         | 30.44    | 20    | 29.60   | 4     |                  |                 |            |                                         |                                         |                                  |       |
| Bay May City.....     | 30.03         | 30.44    | 20    | 29.63   | 4     | 9                | 31              | ne.        | 4                                       | 77                                      | 81                               | 56    |
| Long Branch.....      |               |          |       |         |       |                  | 44              | e.         | 4                                       | 80                                      | 85                               |       |
| Newark.....           |               |          |       |         |       |                  | 72              | ne.        | 4                                       |                                         |                                  |       |
| New York, N. Y.....   |               |          |       |         |       |                  |                 |            |                                         | 70*                                     | 64†                              | 57    |
| Philadelphia, Pa..... | 30.00         | 30.44    | 20    | 29.68   | 1     | 16               | 54              | n.w.       | 9                                       | 70                                      | 65                               | 62    |
| Ridgefield.....       | 30.02         | 30.46    | 20    | 29.68   | 4     | 10               | 37              | ne.        | 4                                       | 76                                      | 71                               | 59    |
| Union Hook.....       | 30.00         | 30.45    | 20    | 29.67   | 1     |                  |                 |            |                                         |                                         |                                  |       |
| Princeton.....        | 30.01         | 30.45    | 20    | 29.67   | 4     | 15               | 64              | ne.        | 4                                       | 83                                      | 79                               | 58    |
|                       | 30.00         | 30.43    | 20    | 29.66   | 4     | 11               | 45              | ue.        | 29                                      | 76                                      | 70                               | 52    |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for May, 1921.

| Stations.                                   | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean. |      |      |
|---------------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-------|------|------|
| <i>The Highlands and Kittatinny Valley.</i> |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |      |      |
| Belvidere.....                              | Maximum | 67 | 66 | 60 | 50 | 65 | 73 | 79 | 80 | 82 | 65 | 59 | 73 | 78 | 71 | 67 | 74 | 78 | 76 | 79 | 85 | 90 | 81 | 61 | 58 | 76 | 80 | 82 | 81 | 74 | 83   | 73.1  |      |      |
|                                             | Minimum | 46 | 43 | 48 | 44 | 43 | 42 | 45 | 46 | 46 | 44 | 41 | 51 | 59 | 50 | 42 | 39 | 43 | 52 | 47 | 51 | 61 | 57 | 44 | 46 | 49 | 47 | 54 | 61 | 63 | 46   | 48.5  |      |      |
| Charlotteburg.....                          | Maximum | 58 | 65 | 65 | 60 | 55 | 58 | 65 | 73 | 74 | 73 | 68 | 61 | 69 | 76 | 72 | 70 | 70 | 71 | 77 | 84 | 89 | 78 | 65 | 60 | 70 | 78 | 80 | 84 | 80 | 79   | 71.0  |      |      |
|                                             | Minimum | 42 | 34 | 35 | 44 | 41 | 39 | 35 | 48 | 51 | 42 | 41 | 39 | 49 | 52 | 44 | 48 | 34 | 39 | 42 | 37 | 62 | 54 | 32 | 38 | 43 | 35 | 44 | 58 | 59 | 39   | 43.3  |      |      |
| Dover.....                                  | Maximum | 51 | 65 | 66 | 57 | 46 | 58 | 70 | 74 | 77 | 57 | 57 | 70 | 80 | 78 | 66 | 69 | 49 | 38 | 40 | 52 | 43 | 55 | 63 | 51 | 44 | 42 | 45 | 41 | 51 | 61   | 52    | 46.5 |      |
|                                             | Minimum | 44 | 37 | 38 | 46 | 43 | 42 | 38 | 50 | 45 | 43 | 41 | 50 | 56 | 49 | 49 | 38 | 40 | 52 | 43 | 55 | 63 | 51 | 44 | 42 | 45 | 41 | 51 | 61 | 52 | 45   | 46.5  |      |      |
| Layton.....                                 | Maximum | 55 | 64 | 70 | 60 | 54 | 65 | 72 | 75 | 80 | 75 | 63 | 61 | 72 | 78 | 76 | 66 | 69 | 72 | 76 | 77 | 85 | 91 | 83 | 58 | 50 | 77 | 79 | 82 | 84 | 74   | 83    | 71.8 |      |
|                                             | Minimum | 45 | 35 | 41 | 45 | 42 | 41 | 35 | 43 | 40 | 38 | 40 | 52 | 60 | 44 | 54 | 36 | 38 | 43 | 40 | 40 | 52 | 56 | 38 | 38 | 47 | 43 | 50 | 57 | 60 | 44   | 44.4  |      |      |
| Newton.....                                 | Maximum | 54 | 64 | 65 | 59 | 56 | 61 | 68 | 72 | 75 | 73 | 68 | 56 | 70 | 75 | 74 | 72 | 70 | 75 | 71 | 76 | 83 | 88 | 84 | 57 | 54 | 73 | 78 | 82 | 80 | 73   | 81    | 70.5 |      |
|                                             | Minimum | 49 | 42 | 46 | 48 | 43 | 41 | 42 | 43 | 57 | 44 | 42 | 52 | 59 | 51 | 48 | 38 | 48 | 51 | 46 | 53 | 61 | 54 | 41 | 43 | 47 | 49 | 50 | 54 | 61 | 48   | 48.5  |      |      |
| Phillipsburg.....                           | Maximum | 54 | 68 | 69 | 60 | 63 | 74 | 79 | 80 | 77 | 71 | 59 | 74 | 80 | 78 | 74 | 80 | 78 | 71 | 75 | 81 | 88 | 92 | 82 | 62 | 56 | 44 | 46 | 80 | 82 | 84   | 87    | 89   | 75.8 |
|                                             | Minimum | 46 | 41 | 44 | 45 | 42 | 43 | 47 | 50 | 49 | 47 | 44 | 52 | 60 | 51 | 40 | 44 | 55 | 48 | 52 | 62 | 62 | 53 | 44 | 46 | 80 | 82 | 84 | 87 | 81 | 89   | 75.8  |      |      |
| Sussex.....                                 | Maximum | 55 | 68 | 70 | 61 | 57 | 66 | 73 | 78 | 78 | 75 | 75 | 81 | 79 | 71 | 75 | 81 | 79 | 81 | 79 | 81 | 88 | 92 | 82 | 62 | 53 | 80 | 82 | 84 | 87 | 81   | 89    | 75.8 |      |
|                                             | Minimum | 46 | 36 | 40 | 45 | 43 | 42 | 36 | 47 | 41 | 40 | 40 | 59 | 45 | 50 | 36 | 39 | 39 | 41 | 49 | 57 | 55 | 43 | 44 | 46 | 41 | 48 | 58 | 62 | 44 | 45   | 45.7  |      |      |
| <i>The Red Sandstone Plain.</i>             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |      |      |
| Bergen Point.....                           | Maximum | 59 | 68 | 64 | 60 | 50 | 60 | 68 | 76 | 79 | 77 | 66 | 60 | 72 | 78 | 78 | 66 | 78 | 70 | 72 | 86 | 89 | 82 | 58 | 55 | 74 | 80 | 83 | 83 | 76 | 83   | 71.9  |      |      |
|                                             | Minimum | 44 | 45 | 44 | 48 | 46 | 43 | 45 | 45 | 46 | 49 | 47 | 44 | 53 | 55 | 54 | 51 | 41 | 43 | 55 | 52 | 55 | 62 | 53 | 48 | 44 | 49 | 51 | 54 | 61 | 61   | 49    | 49.6 |      |
| Boonton§§.....                              | Maximum | 55 | 68 | 68 | 59 | 49 | 59 | 68 | 76 | 70 | 70 | 63 | 63 | 72 | 80 | 78 | 70 | 71 | 78 | 75 | 78 | 82 | 88 | 77 | 60 | 55 | 77 | 78 | 82 | 79 | 83   | 71.4  |      |      |
|                                             | Minimum | 48 | 36 | 38 | 46 | 44 | 43 | 39 | 46 | 48 | 52 | 43 | 39 | 46 | 55 | 49 | 52 | 39 | 39 | 51 | 43 | 50 | 58 | 64 | 37 | 40 | 42 | 43 | 49 | 59 | 62   | 43    | 46.5 |      |
| Elizabeth.....                              | Maximum | 55 | 70 | 68 | 59 | 57 | 57 | 68 | 78 | 81 | 80 | 73 | 60 | 74 | 80 | 80 | 73 | 69 | 80 | 73 | 77 | 86 | 90 | 82 | 61 | 54 | 78 | 83 | 85 | 83 | 78   | 87    | 73.5 |      |
|                                             | Minimum | 46 | 40 | 42 | 48 | 45 | 44 | 42 | 47 | 45 | 45 | 45 | 53 | 56 | 52 | 49 | 39 | 41 | 55 | 52 | 54 | 62 | 55 | 41 | 41 | 46 | 47 | 51 | 64 | 62 | 47   | 48.6  |      |      |
| Flemington.....                             | Maximum | 57 | 70 | 65 | 60 | 50 | 59 | 71 | 79 | 82 | 78 | 69 | 55 | 74 | 80 | 80 | 75 | 73 | 77 | 73 | 78 | 84 | 90 | 82 | 63 | 57 | 76 | 80 | 83 | 86 | 80   | 85    | 73.3 |      |
|                                             | Minimum | 47 | 40 | 43 | 48 | 45 | 45 | 40 | 50 | 45 | 45 | 40 | 46 | 43 | 52 | 55 | 50 | 41 | 53 | 52 | 51 | 60 | 55 | 41 | 45 | 49 | 49 | 53 | 61 | 63 | 46   | 49.2  |      |      |
| Highwood.....                               | Maximum | 54 | 66 | 67 | 59 | 50 | 55 | 66 | 75 | 78 | 75 | 61 | 59 | 71 | 77 | 71 | 67 | 69 | 75 | 70 | 75 | 87 | 88 | 80 | 58 | 52 | 72 | 81 | 82 | 79 | 74   | 83    | 70.2 |      |
|                                             | Minimum | 45 | 36 | 42 | 48 | 45 | 44 | 40 | 40 | 45 | 44 | 46 | 43 | 52 | 55 | 50 | 41 | 39 | 42 | 53 | 51 | 55 | 62 | 54 | 40 | 46 | 46 | 53 | 61 | 61 | 47   | 47.7  |      |      |
| Jersey City.....                            | Maximum | 55 | 70 | 65 | 60 | 54 | 56 | 70 | 77 | 82 | 74 | 62 | 54 | 55 | 55 | 55 | 57 | 52 | 43 | 49 | 49 | 54 | 58 | 64 | 55 | 49 | 47 | 49 | 55 | 59 | 64   | 58    | 51.8 |      |
|                                             | Minimum | 46 | 45 | 48 | 48 | 47 | 45 | 47 | 49 | 52 | 54 | 48 | 45 | 55 | 55 | 57 | 52 | 43 | 49 | 49 | 54 | 58 | 64 | 55 | 49 | 47 | 49 | 55 | 59 | 64 | 58   | 59    | 51.8 |      |
| Kearny.....                                 | Maximum | 55 | 76 | 68 | 59 | 48 | 59 | 70 | 78 | 80 | 76 | 62 | 64 | 73 | 81 | 80 | 70 | 72 | 79 | 75 | 76 | 87 | 90 | 79 | 62 | 55 | 80 | 83 | 86 | 83 | 84   | 88    | 73.6 |      |
|                                             | Minimum | 46 | 45 | 47 | 48 | 45 | 44 | 46 | 54 | 55 | 54 | 46 | 44 | 53 | 56 | 57 | 52 | 42 | 49 | 56 | 53 | 59 | 65 | 53 | 45 | 45 | 49 | 55 | 58 | 66 | 61   | 53    | 51.6 |      |
| Lambertville.....                           | Maximum | 55 | 73 | 68 | 63 | 51 | 60 | 73 | 78 | 83 | 79 | 65 | 62 | 75 | 83 | 84 | 77 | 82 | 79 | 84 | 88 | 90 | 77 | 66 | 56 | 82 | 84 | 89 | 84 | 85 | 89   | 75.5  |      |      |
|                                             | Minimum | 47 | 39 | 45 | 49 | 45 | 44 | 43 | 48 | 51 | 47 | 48 | 45 | 52 | 56 | 53 | 54 | 42 | 44 | 55 | 50 | 56 | 63 | 66 | 43 | 45 | 48 | 47 | 55 | 64 | 64   | 50    | 50.3 |      |
| Little Falls.....                           | Maximum | 53 | 68 | 65 | 58 | 49 | 56 | 66 | 75 | 80 | 81 | 57 | 60 | 70 | 79 | 81 | 68 | 69 | 81 | 68 | 69 | 81 | 87 | 77 | 59 | 54 | 76 | 82 | 84 | 84 | 75   | 83    | 71.4 |      |
|                                             | Minimum | 45 | 46 | 51 | 48 | 45 | 46 | 48 | 55 | 54 | 57 | 46 | 45 | 55 | 56 | 58 | 60 | 50 | 46 | 55 | 53 | 64 | 64 | 51 | 46 | 46 | 50 | 55 | 59 | 65 | 60   | 57    | 52.7 |      |
| Newark.....                                 | Maximum | 56 | 67 | 64 | 56 | 50 | 56 | 66 | 75 | 79 | 77 | 73 | 54 | 73 | 78 | 78 | 75 | 67 | 77 | 76 | 77 | 83 | 87 | 84 | 59 | 55 | 73 | 80 | 82 | 84 | 76   | 84    | 71.6 |      |
|                                             | Minimum | 45 | 44 | 42 | 48 | 45 | 44 | 44 | 48 | 50 | 52 | 47 | 45 | 48 | 57 | 54 | 50 | 41 | 42 | 56 | 51 | 54 | 62 | 54 | 43 | 42 | 49 | 50 | 53 | 63 | 60   | 48    | 49.4 |      |
| New Brunswick.....                          | Maximum | 55 | 68 | 68 | 60 | 55 | 60 | 68 | 77 | 82 | 78 | 72 | 62 | 70 | 79 | 80 | 79 | 72 | 77 | 76 | 81 | 89 | 93 | 83 | 61 | 56 | 75 | 83 | 83 | 82 | 82   | 86    | 73.5 |      |
|                                             | Minimum | 49 | 41 | 45 | 49 | 45 | 44 | 44 | 50 | 52 | 52 | 46 | 44 | 53 | 54 | 54 | 42 | 45 | 55 | 50 | 56 | 63 | 55 | 44 | 48 | 50 | 56 | 65 | 65 | 62 | 50.5 |       |      |      |
| Paterson.....                               | Maximum | 55 | 67 | 66 | 57 | 49 | 57 | 67 | 77 | 80 | 77 | 62 | 57 | 72 | 80 | 79 | 72 | 71 | 76 | 76 | 81 | 89 | 93 | 83 | 61 | 56 | 75 | 83 | 83 | 82 | 82   | 86    | 73.5 |      |
|                                             | Minimum | 45 | 43 | 38 | 47 | 43 | 42 | 39 | 50 | 42 | 45 | 46 | 44 | 51 | 56 | 54 | 51 | 39 | 40 | 55 | 47 | 50 | 58 | 53 | 38 | 39 | 43 | 45 | 47 | 61 | 61   | 45    | 47.0 |      |
| Plainfield.....                             | Maximum | 52 | 67 | 65 | 58 | 49 | 56 | 68 | 73 | 78 | 76 | 59 | 60 | 72 | 78 | 78 | 67 | 69 | 76 | 70 | 73 | 87 | 89 | 75 | 58 | 52 | 76 | 81 | 84 | 79 | 75   | 83    | 70.4 |      |
|                                             | Minimum | 45 | 39 | 44 | 46 | 45 | 43 | 41 | 47 | 49 | 48 | 45 | 43 | 53 | 54 | 54 | 47 | 40 | 44 | 55 | 51 | 56 | 62 | 46 | 42 | 41 | 47 | 48 | 56 | 62 | 55   | 50    | 48.4 |      |
| Ridgefield.....                             | Maximum | 56 | 67 | 64 | 59 | 54 | 59 | 71 | 74 | 80 | 77 | 73 | 59 | 75 | 80 | 78 | 74 | 71 | 78 | 74 | 81 | 89 | 93 | 83 | 61 | 56 | 75 | 83 | 83 | 82 | 82   | 86    | 73.5 |      |
|                                             | Minimum | 47 | 43 | 44 | 49 | 46 | 44 | 39 | 50 | 47 | 49 | 47 | 46 | 54 | 58 | 52 | 54 | 41 | 44 | 50 | 50 | 53 | 62 | 52 | 41 | 44 | 49 | 53 | 54 | 63 | 62   | 48    | 49.5 |      |
| Somerville.....                             | Maximum | 54 | 66 | 65 | 57 | 47 | 59 | 66 | 74 | 77 | 74 | 58 | 61 | 70 | 77 | 77 | 67 | 67 | 76 | 70 | 75 | 83 | 90 | 79 | 62 | 55 | 80 | 83 | 86 | 83 | 84   | 88    | 73.6 |      |
|                                             | Minimum | 45 | 44 | 43 | 47 | 43 | 42 | 44 | 54 | 52 | 52 | 45 | 44 | 51 | 55 | 55 | 52 | 41 | 46 | 56 | 50 | 55 | 66 | 50 | 42 | 42 | 48 | 50 | 54 | 64 | 58   | 52    | 49.0 |      |
| South Orange.....                           | Maximum | 55 | 68 | 63 | 59 | 51 | 54 | 65 | 73 | 77 | 73 | 55 | 59 | 70 | 76 | 77 | 65 | 65 | 74 | 70 | 71 | 81 | 85 | 61 | 58 | 53 | 78 | 80 | 80 | 75 | 81   | 69.0  |      |      |
|                                             | Minimum | 46 | 47 | 48 | 44 | 44 | 45 | 48 | 54 | 53 | 44 | 43 | 43 | 53 | 58 | 60 | 49 | 43 | 51 | 53 | 51 | 58 | 63 | 51 | 48 | 47 | 48 | 58 | 59 | 65 | 59   | 59    | 51.7 |      |
| New York, N. Y.....                         | Maximum | 56 | 66 | 64 | 55 | 56 | 54 | 75 | 80 | 83 | 75 | 60 | 78 | 82 | 82 | 68 | 73 | 80 | 78 | 78 | 83 | 90 | 87 | 64 | 62 | 71 | 80 | 86 | 88 | 88 | 74   | 82    | 73.9 |      |
|                                             | Minimum | 53 | 43 | 48 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |      |      |



# CLIMATOLOGICAL DATA.

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AUG 16 1921

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist.

VOL. XXVI. TRENTON, N. J., JUNE, 1921. No. 6.

### GENERAL SUMMARY.

The tendency of the earlier months of 1921 towards an excess of warmth has been continued during June in New Jersey to a moderate degree, and although the temperature departure above normal was slight, it has not been exceeded in heat since 1899, but was equalled in 1900 and 1906. This warmth taken in connection with a persistent, but slight, deficiency in precipitation since the first of the year, caused drought conditions to become acute over many portions of the State, particularly eastern and southern regions and in the forested areas. The very notably warm March and April followed by unfavorable weather for crop growth in May, and the June drought, have been a serious detriment to substantial advancement of vegetation. Forest fire conditions became serious, and the State Firewarden promulgated orders forbidding the kindling of camp and similar fires within his jurisdiction. The absence of consecutive rainy days afforded one of the best haying seasons in many years, and the crop was housed in most cases unusually early. All forms of outdoor pursuits were greatly favored by the weather.

A violent thunderstorm passed over the State from Trenton eastward on the 27th, with hailstorms three-fourths inch in diameter; there was much damage to trees by the wind, and many small fires started from lightning. Another severe storm passed over central portions of the State on the 29th, with much attending damage of a minor character from lightning and wind. One death from lightning occurred in Burlington.

The continued lack of rain has maintained water courses at a low stage.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 36 stations, was 70.4°, which was 1.8° above the normal. The highest temperature was 100° at Paterson on the 22d, and the lowest was 33° at Charlotteburg on the 2d. The highest monthly mean temperature was 73.2° at Bridgeport, Moorestown and Vineland, and the lowest, 66.2° at Charlotteburg. The greatest daily range of temperature was 47° at Indian Mills and Lakewood on the 3d. The temperature departure from the normal for the year 1921, to date, by sections is: The Highlands, +4.4°; Red Sandstone Plain, +4.4°; Southern Interior, +4.4°; Sea Coast, +3.9°.

### PRECIPITATION.

The average total rainfall for the State, as deduced from observations of 40 stations, was 3.23 inches, which was 0.30 inch below the normal. The greatest monthly amount was 5.64 inches at Plainfield, and the least, 1.40 inches at Northfield. The greatest amount of rain in 24 consecutive hours was 3.26 inches at Trenton on the 27th and 28th. The average number of days on which 0.01 inch or more rain fell was 8, which was 1 less than the normal.

The precipitation accumulated departure from the normal for the year 1921, to date, is: The Highlands, -0.80 inch; Red Sandstone Plain, -0.73 inch; Southern Interior, -2.34 inches; the Sea Coast, -3.80 inches.

### WIND.

The prevailing wind direction for the month was from the southwest, with an approximate velocity of 10 miles per hour, which was slightly above the normal. The highest velocity for the month, sustained for five consecutive minutes, was 62 miles per hour from the northwest on the 28th at Long Branch. High winds were also noted on the 14th, 15th, 27th and 28th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, which was 6 more than the normal; partly cloudy, 7, which was 4 less than the normal; cloudy, 5, which was 2 less than the normal. The approximate percentage of possible sunshine was 68, probably somewhat above the normal value.

### MISCELLANEOUS.

The mean stage of the Delaware River at Trenton was 0.8 feet, which was 1.4 feet below the normal; The highest stage was 1.4 feet on the 1st and 4th.

The mean atmospheric pressure, reduced to sea level, was 29.98 inches, which was normal. The highest reading was 30.31 inches at Sandy Hook on the 2d, and the lowest, 29.57 inches at Ridgefield and Sandy Hook on the 13th. Thunderstorms occurred in some portions of the State on the 3d, 4th, 11th, 13th, 17th, 21st, 22d, 23d, 24th, 26th, 27th, 28th, 29th and 30th. Solar halos were observed on the 6th and 16th and lunar halos on the 24th. Fog was observed on the 10th, 24th, 27th, 28th and 30th. Light frost occurred at Lakewood on the 3d, and New Lisbon on the 5th, and heavy frost at New Lisbon on the 3d. Hail did little damage at Newton and Trenton on the 27th, at Dover on the 28th and Belvidere on the 29th, and much damage at Burlington on the 27th.

### COMPARATIVE DATA FOR JUNE.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | 0.1 inch or more prec. |
| 1885..... | 68.7         | 97       | 39      | 1.79           | 3.37      | 0.72   | .....        | .....          | .....   | .....                  |
| 1886..... | 67.1         | 91       | 41      | 3.38           | 5.79      | 2.22   | .....        | .....          | .....   | .....                  |
| 1887..... | 68.2         | 97       | 42      | 6.77           | 10.29     | 4.21   | .....        | .....          | 9       | 10                     |
| 1888..... | 70.8         | 99       | 39      | 2.59           | 5.69      | 1.67   | .....        | .....          | 5       | 6                      |
| 1889..... | 69.9         | 91       | 40      | 3.73           | 6.75      | 2.39   | .....        | .....          | 10      | 10                     |
| 1890..... | 70.7         | 95       | 42      | 3.59           | 5.16      | 0.99   | 11           | 13             | 6       | 7                      |
| 1891..... | 69.7         | 102      | 38      | 2.92           | 6.71      | 1.24   | 14           | 9              | 7       | 5                      |
| 1892..... | 72.4         | 98       | 44      | 3.85           | 6.12      | 1.58   | 10           | 12             | 8       | 11                     |
| 1893..... | 69.7         | 103      | 40      | 2.95           | 7.02      | 0.46   | 10           | 11             | 9       | 8                      |
| 1894..... | 70.6         | 102      | 35      | 2.28           | 5.90      | 0.99   | 14           | 11             | 5       | 9                      |
| 1895..... | 71.7         | 103      | 39      | 3.24           | 5.99      | 0.93   | 11           | 11             | 8       | 10                     |
| 1896..... | 68.1         | 96       | 37      | 5.46           | 13.45     | 2.64   | 12           | 10             | 8       | 10                     |
| 1897..... | 66.1         | 95       | 35      | 3.38           | 5.50      | 2.12   | 10           | 13             | 7       | 10                     |
| 1898..... | 70.1         | 100      | 38      | 2.10           | 3.54      | 1.13   | 14           | 12             | 4       | 8                      |
| 1899..... | 72.3         | 103      | 38      | 2.50           | 4.34      | 1.01   | 15           | 10             | 5       | 7                      |
| 1900..... | 70.4         | 97       | 39      | 3.08           | 4.91      | 1.10   | 12           | 12             | 6       | 8                      |
| 1901..... | 70.0         | 103      | 35      | 1.57           | 4.36      | 0.73   | 18           | 8              | 4       | 5                      |
| 1902..... | 67.5         | 99       | 37      | 6.57           | 10.21     | 4.54   | 14           | 11             | 5       | 11                     |
| 1903..... | 64.0         | 92       | 37      | 7.68           | 15.02     | 2.39   | 6            | 10             | 14      | 15                     |
| 1904..... | 68.6         | 100      | 34      | 3.13           | 5.41      | 1.91   | 13           | 10             | 7       | 12                     |
| 1905..... | 68.3         | 96       | 35      | 3.43           | 8.71      | 1.67   | 11           | 12             | 7       | 10                     |
| 1906..... | 70.4         | 98       | 38      | 4.48           | 9.18      | 1.45   | 11           | 11             | 8       | 12                     |
| 1907..... | 64.7         | 96       | 31      | 4.41           | 6.85      | 3.15   | 12           | 10             | 8       | 10                     |
| 1908..... | 69.9         | 99       | 35      | 2.32           | 4.63      | 0.77   | 16           | 12             | 2       | 4                      |
| 1909..... | 70.0         | 99       | 36      | 3.26           | 5.70      | 1.71   | 9            | 10             | 11      | 12                     |
| 1910..... | 66.9         | 95       | 34      | 5.17           | 8.01      | 2.66   | 9            | 10             | 11      | 13                     |
| 1911..... | 68.9         | 97       | 40      | 5.36           | 10.11     | 2.84   | 9            | 12             | 9       | 14                     |
| 1912..... | 68.0         | 98       | 33      | 1.94           | 3.61      | 0.91   | 9            | 12             | 9       | 8                      |
| 1913..... | 69.1         | 98       | 31      | 1.80           | 3.76      | 0.68   | 19           | 8              | 3       | 5                      |
| 1914..... | 68.5         | 98       | 35      | 2.66           | 4.85      | 1.09   | 16           | 9              | 6       | 7                      |
| 1915..... | 67.0         | 95       | 36      | 3.12           | 6.51      | 1.40   | 13           | 10             | 7       | 11                     |
| 1916..... | 64.7         | 87       | 36      | 4.20           | 5.99      | 2.22   | 10           | 9              | 11      | 13                     |
| 1917..... | 68.9         | 95       | 40      | 4.27           | 7.14      | 2.80   | 13           | 10             | 7       | 12                     |
| 1918..... | 66.3         | 96       | 32      | 3.43           | 6.21      | 1.35   | 15           | 9              | 6       | 8                      |
| 1919..... | 69.5         | 99       | 37      | 3.16           | 3.58      | 0.87   | 16           | 7              | 7       | 8                      |
| 1920..... | 68.4         | 98       | 38      | 6.18           | 11.26     | 3.12   | 13           | 9              | 8       | 12                     |
| 1921..... | 70.4         | 100      | 33      | 3.23           | 5.64      | 1.40   | 18           | 7              | 5       | 8                      |



## Climatological Data for June, 1921.

| Stations.                                   | Counties.  | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |            |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | (greatest daily range.    | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere††                                 | Warren     | 289              | 30                       | 70.3                          | +1.5                       | 94       | 22†   | 44      | 3     | 39                        | 3.54   | -0.46                      | 1.54                  | 0                          | 7                              | 25     | 2           | 3                             | .....      | Samuel J. Hixson.         |
| Charlotteburg                               | Passaic    | 719              | 29                       | 66.0                          | +1.2                       | 94       | 22    | 33      | 2†    | 46                        | 4.64   | +0.52                      | 2.78                  | 0                          | 7                              | 20     | 10          | 0                             | sw.        | George S. Briggs.         |
| Culvers Lake††                              | Sussex     | 848              | 20                       | 68.8                          | .....                      | 96       | 22    | 36      | 3     | 43                        | 4.62   | +0.01                      | 1.70                  | 0                          | 10                             | 22     | 5           | 3                             | sw.        | Brice E. Riker.           |
| Dover                                       | Morris     | 600              | 37                       | 68.8                          | +2.1                       | 96       | 22    | 38      | 3     | 43                        | 4.62   | +0.59                      | 2.04                  | 0                          | 10                             | 9      | 16          | 5                             | .....      | William C. Harris.        |
| Layton                                      | Sussex     | 480              | 20                       | 68.0                          | +2.5                       | 97       | 22†   | 38      | 2†    | 44                        | 2.68   | -1.11                      | 0.64                  | 0                          | 8                              | 20     | 4           | 6                             | w.         | A. M. Depue.              |
| Newton                                      | Sussex     | 769              | 38                       | 69.6                          | +1.6                       | 96       | 27    | 44      | 2     | 34                        | 5.16   | +1.18                      | 2.20                  | 0                          | 9                              | 22     | 5           | 3                             | sw.        | Irving G. Kern.           |
| Phillipsburg                                | Warren     | 363              | 39                       | 69.1†                         | .....                      | 97       | 22    | 34      | 2     | 46                        | 3.67   | -0.01                      | 0.93                  | 0                          | 9                              | .....  | .....       | .....                         | sw.        | Mrs. D. Wilson Smith.     |
| Sussex                                      | Sussex     | 442              | 27                       | 69.1†                         | +2.3                       | 97       | 22    | 34      | 2     | 46                        | 3.67   | -0.01                      | 0.93                  | 0                          | 9                              | .....  | .....       | .....                         | sw.        | Rev. W. August George     |
| Means and extremes                          |            |                  |                          | 68.6                          | +1.9                       | 97       | 22†   | 33      | 2†    | 46†                       | 4.13   | +0.10                      | 2.78                  | 0                          | 9                              | 20     | 7           | 3                             | sw.        |                           |
| <i>The Red Sandstone Plain.</i>             |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††                              | Hudson     | 37               | 24                       | 68.4                          | +2.4                       | 94       | 22    | 36      | 3     | 43                        | 3.48   | -0.19                      | 1.19                  | 0                          | 8                              | 27     | 0           | 3                             | sw.        | William H. Mitchell.      |
| Boonton                                     | Morris     | 400              | 31                       | 68.4                          | +2.4                       | 94       | 22    | 36      | 3     | 43                        | 3.48   | -0.19                      | 1.19                  | 0                          | 8                              | 27     | 0           | 3                             | sw.        | J. W. Demmers.            |
| Chatham                                     | Morris     | 185              | 17                       | 68.4                          | +2.4                       | 94       | 22    | 36      | 3     | 43                        | 3.48   | -0.19                      | 1.19                  | 0                          | 8                              | 27     | 0           | 3                             | sw.        | Paul Molitor, Sr.         |
| Elizabeth                                   | Union      | 45               | 42                       | 71.0                          | +0.5                       | 98       | 22    | 41      | 3     | 41                        | 3.21   | -0.41                      | 1.22                  | 0                          | 8                              | 17     | 11          | 2                             | nw.        | L. B. Bonnett.            |
| Flemington                                  | Hunterdon  | 140              | 35                       | 72.0                          | +2.8                       | 97       | 22    | 41      | 3     | 40                        | 2.68   | -1.16                      | 1.07                  | 0                          | 8                              | 21     | 7           | 2                             | sw.        | Hiram E. Deats.           |
| Highwood                                    | Bergen     | 90               | 33                       | 68.4                          | +0.8                       | 93       | 22    | 43      | 3     | 38                        | 3.10   | -0.59                      | 1.70                  | 0                          | 10                             | 15     | 10          | 5                             | sw.        | Charles J. Bates.         |
| Jersey City                                 | Hudson     | 10               | 24                       | 73.0                          | +2.1                       | 97       | 22    | 52      | 3     | 33                        | 3.41   | -0.09                      | 1.13                  | 0                          | 8                              | 13     | 13          | 4                             | s.         | S. K. Pearson, Jr.        |
| Kearny                                      | Hudson     | 100              | 2                        | 72.0                          | .....                      | 96       | 22    | .....   | ..... | 29                        | 3.39   | .....                      | 1.33                  | 0                          | 7                              | 15     | 9           | 6                             | s.         | Wm. J. Chandler, M. D.    |
| Lambertville                                | Hunterdon  | 300              | 34                       | 72.4                          | +4.7                       | 98       | 22    | 44      | 3     | 40                        | 3.06   | -0.46                      | 1.07                  | 0                          | 9                              | 18     | 7           | 5                             | nw.        | Thomas R. Hunt.           |
| Little Falls                                | Passaic    | 180              | 18                       | 72.4                          | +4.7                       | 98       | 22    | 44      | 3     | 40                        | 3.06   | -0.46                      | 1.07                  | 0                          | 9                              | 18     | 7           | 5                             | nw.        | Montclair Water Co.       |
| Newark                                      | Essex      | 159              | 79                       | 71.5                          | +2.2                       | 97       | 22    | 52      | 2†    | 30                        | 5.26   | +1.50                      | 1.43                  | 0                          | 9                              | 13     | 10          | 7                             | sw.        | Prof. William Wiener.     |
| New Brunswick                               | Middlesex  | 110              | 68                       | 71.5                          | +3.0                       | 96       | 22    | 43      | 3     | 36                        | 1.92   | -1.34                      | 1.18                  | 0                          | 6                              | 24     | 4           | 2                             | w.         | N. J. Experiment Station. |
| New Milford††                               | Bergen     | 80               | 50                       | 72.4                          | +2.6                       | 100      | 22    | 47      | 3     | 35                        | 2.32   | -1.80                      | 1.30                  | 0                          | 9                              | 8      | 4           | 18                            | sw.        | Hackensack Water Co.      |
| Paterson                                    | Passaic    | 110              | 33                       | 69.3                          | +0.7                       | 96       | 22    | 39      | 3     | 42                        | 5.64   | +1.90                      | 2.02                  | 0                          | 11                             | 18     | 9           | 3                             | sw.        | Marion T. Probert.        |
| Plainfield                                  | Somerset   | 70               | 6                        | 68.6                          | .....                      | 94       | 22    | 46      | 3     | 35                        | 2.94   | .....                      | 1.31                  | 0                          | 8                              | 20     | 7           | 3                             | nw.        | E. D. Pearson.            |
| Ridgefield††                                | Bergen     | 74               | 38                       | 72.1                          | +3.0                       | 97       | 22    | 43      | 3     | 39                        | 2.74   | -1.00                      | 1.86                  | 0                          | 6                              | 13     | 10          | 7                             | sw.        | George P. Kirsten.        |
| Somerville                                  | Somerset   | 200              | 51                       | 70.1                          | +1.6                       | 93       | 22    | 46      | 3     | 34                        | 4.15   | +0.60                      | 1.33                  | 0                          | 8                              | 25     | 3           | 2                             | w.         | Kenneth Bauer.            |
| South Orange                                | Essex      | 200              | 51                       | 70.1                          | +1.6                       | 93       | 22    | 46      | 3     | 34                        | 4.15   | +0.60                      | 1.33                  | 0                          | 8                              | 25     | 3           | 2                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake††                            | Bergen     | 365              | 51                       | 70.3                          | +1.8                       | 93       | 22    | 53      | 3     | 28                        | 3.25   | -0.01                      | 1.25                  | 0                          | 8                              | 8      | 14          | 8                             | sw.        | Hackensack Water Co.      |
| New York, N. Y.                             |            |                  |                          | 70.9                          | +2.2                       | 100      | 22    | 36      | 3     | 43                        | 3.34   | +0.31                      | 2.02                  | 0                          | 8                              | 18     | 7           | 5                             | sw.        | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 70.9                          | +2.2                       | 100      | 22    | 36      | 3     | 43                        | 3.34   | +0.31                      | 2.02                  | 0                          | 8                              | 18     | 7           | 5                             | sw.        |                           |
| <i>The Southern Interior.</i>               |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton                                   | Cumberland | 30               | 40                       | 73.2                          | +1.1                       | 98       | 22†   | 43      | 3     | 40                        | 1.85   | -1.88                      | 1.05                  | 0                          | 6                              | 24     | 0           | 6                             | sw.        | Henry A. Jorden.          |
| Burlington                                  | Burlington | 12               | 35                       | 73.0                          | +3.3                       | 97       | 22    | 44      | 3     | 38                        | 3.76   | -0.24                      | 1.40                  | 0                          | 7                              | 26     | 2           | 2                             | w.         | D. S. B. McCoy.           |
| Camp Dix                                    | Burlington | 127              | 3                        | 71.0                          | .....                      | 97       | 22    | 37      | 3     | 43                        | 3.00   | .....                      | 1.19                  | 0                          | 10                             | 11     | 10          | 9                             | sw.        | U. S. Army.               |
| Clayton                                     | Gloucester | 130              | 28                       | 72.0*                         | +2.5                       | 97       | 28    | 38      | 3     | 35                        | .....  | .....                      | 0.99                  | 0                          | .....                          | .....  | .....       | .....                         | sw.        | Marvin E. Porch.          |
| Hammonton                                   | Atlantic   | 103              | 20                       | 70.0                          | +1.0                       | 96       | 22    | 40      | 3     | 41                        | 3.39   | -0.13                      | 2.04                  | 0                          | 6                              | 22     | 6           | 2                             | sw.        | Charles M. Phillips.      |
| Hightstown                                  | Mercer     | 120              | 29                       | 70.0                          | +1.0                       | 96       | 22    | 40      | 3     | 41                        | 2.87   | -0.73                      | 1.05                  | 0                          | 6                              | 21     | 7           | 2                             | e.         | E. H. Savige, Jr.         |
| Imlaytown                                   | Monmouth   | 115              | 33                       | 70.1*                         | -0.2                       | 97       | 22    | 38      | 3     | 45                        | 2.13   | -1.64                      | 1.08                  | 0                          | 6                              | 23     | 5           | 2                             | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††                              | Burlington | 76               | 32                       | 69.6                          | -0.2                       | 97       | 22    | 35      | 3     | 47                        | 2.80   | -1.33                      | 1.23                  | 0                          | 8                              | 16     | 7           | 7                             | se.        | James M. Armstrong.       |
| Lakewood                                    | Ocean      | 54               | 17                       | 69.9                          | +2.4                       | 99       | 22    | 36      | 3     | 47                        | 2.88   | -0.83                      | 1.33                  | 0                          | 7                              | 13     | 5           | 12                            | sw.        | R. W. Holman.             |
| Moorestown††                                | Burlington | 75               | 58                       | 73.2*                         | +3.2                       | 99       | 22    | 42      | 3     | 46                        | 3.67   | -0.05                      | 2.05                  | 0                          | 6                              | .....  | .....       | .....                         | w.         | Stokes Seed Farms Co.     |
| Northfield                                  | Atlantic   | 25               | 14                       | 73.2*                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.40   | -2.27                      | 0.96                  | 0                          | 5                              | .....  | .....       | .....                         | sw.        | William L. Flick.         |
| Pleasantville††                             | Atlantic   | 26               | 23                       | 73.2*                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.52   | -2.41                      | 1.17                  | 0                          | 7                              | 24     | 3           | 3                             | .....      | Lincoln Van Gilder.       |
| Trenton                                     | Mercer     | 190              | 49                       | 71.1                          | +1.6                       | 94       | 22    | 49      | 3     | 30                        | 4.83   | +1.34                      | 3.26                  | 0                          | 8                              | 10     | 12          | 8                             | sw.        | U. S. Weather Bureau.     |
| Tuckerton†                                  | Ocean      | 23               | 28                       | 73.2                          | +2.0                       | 97       | 25    | 43      | 3     | 37                        | 1.52   | -2.05                      | 1.13                  | 0                          | 6                              | 17     | 10          | 3                             | sw.        | Frank R. Austin.          |
| Vineland                                    | Cumberland | 109              | 52                       | 73.2                          | +2.0                       | 97       | 25    | 43      | 3     | 37                        | 1.52   | -2.05                      | 1.13                  | 0                          | 6                              | 17     | 10          | 3                             | sw.        | H. C. Himes.              |
| Woodbine                                    | Cape May   | 43               | 28                       | 73.4                          | +2.2                       | 95       | 24    | 54      | 3     | 26                        | 2.86   | -0.44                      | 2.16                  | 0                          | 7                              | 11     | 8           | 11                            | sw.        | W. I. Zechman.            |
| Philadelphia, Pa.                           |            | 117              | 51                       | 73.4                          | +2.2                       | 95       | 24    | 54      | 3     | 26                        | 2.86   | -0.44                      | 2.16                  | 0                          | 7                              | 11     | 8           | 11                            | sw.        | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 71.5                          | +1.7                       | 99       | 22†   | 35      | 3     | 47†                       | 2.74   | -1.02                      | 3.26                  | 0                          | 7                              | 19     | 6           | 5                             | sw.        |                           |
| <i>The Sea Coast.</i>                       |            |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park                                 | Monmouth   | 22               | 32                       | 69.1*                         | +1.7                       | 91       | 24    | .....   | ..... | 30°                       | 4.76   | +1.14                      | 1.70                  | 0                          | 6                              | 20     | 8           | 2                             | ne.        | Information Bureau.       |
| Atlantic City                               | Atlantic   | 16               | 48                       | 67.7                          | +0.9                       | 94       | 24    | 51      | 6     | 25                        | 1.48   | -1.55                      | 1.29                  | 0                          | 8                              | 17     | 6           | 7                             | sw.        | U. S. Weather Bureau.     |
| Cape May City                               | Cape May   | 17               | 37                       | 69.2                          | +1.5                       | 92       | 24    | 51      | 6     | 26                        | 2.50   | -0.54                      | 1.22                  | 0                          | 9                              | 13     | 11          | 6                             | s.         | U. S. Weather Bureau.     |
| Long Branch                                 | Monmouth   | 25               | 14                       | 67.4                          | +1.2                       | 91       | 23    | 45      | 3     | 32                        | 2.46   | -1.34                      | 1.17                  | 0                          | 5                              | 20     | 9           | 1                             | s.         | William D. Martin, Jr.    |
| Sandy Hook                                  | Monmouth   | 22               | 23                       | 69.0                          | +1.2                       | 91       | 22    | 52      | 3     | 23                        | 2.66   | -1.30                      | 1.42                  | 0                          | 7                              | 12     | 12          | 6                             | sw.        | U. S. Weather Bureau.     |
| Means and extremes                          |            |                  |                          | 68.5                          | +1.3                       | 94       | 24    | 45      | 3     | 32                        | 2.77   | -0.72                      | 1.70                  | 0                          | 7                              | 17     | 9           | 4                             | sw.        |                           |
| For the State                               |            |                  |                          | 70.4                          | +1.8                       | 100      | 22    | 33      | 2†    | 47†                       | 3.23   | -0.30                      | 3.26                  | 0                          | 8                              | 18     | 7           | 5                             | sw.        |                           |

† On other dates also.

‡ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, \*, b, °, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for June, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      | Total. |      |      |      |
|--------------------------------------------|-----------------|---------------|---|---|-----|---|---|---|---|---|----|-----|------|-----|-----|----|-----|-----|-----|------|----|----|----|----|-----|-----|-----|------|------|------|------|------|--------|------|------|------|
|                                            |                 | 1             | 2 | 3 | 4   | 5 | 6 | 7 | 8 | 9 | 10 | 11  | 12   | 13  | 14  | 15 | 16  | 17  | 18  | 19   | 20 | 21 | 22 | 23 | 24  | 25  | 26  | 27   | 28   | 29   | 30   | 31   |        |      |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Belvidere.....                             | Delaware.....   |               |   |   | .43 |   |   |   |   |   |    | .05 |      |     |     |    |     | .16 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Charlotteburg.....                         | Passaic.....    |               |   |   | .44 |   |   |   |   |   |    | .18 |      | T.  |     |    |     | .36 |     |      |    |    |    | T. | .10 |     |     | .78  |      | .02  | 1.24 | 1.54 |        | 3.54 |      |      |
| Culvers Lake.....                          | Delaware.....   |               |   |   | .19 |   |   |   |   |   |    | .02 | .20  | .01 |     |    |     | .40 | T.  |      |    |    |    |    | .31 |     |     | 1.53 | 1.25 |      |      |      | 4.64   |      |      |      |
| Dover.....                                 | Passaic.....    |               |   |   | .31 |   |   |   |   |   |    | .10 |      |     |     |    |     | .25 |     |      |    |    |    |    | .31 |     |     | .11  |      | 1.70 | .50  | 1.18 |        | 4.62 |      |      |
| Layton.....                                | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Newton.....                                | Delaware.....   |               |   |   | .23 |   |   |   |   |   |    | .64 |      | .08 |     |    |     | .38 |     |      |    |    |    |    | .31 |     | .28 | .16  |      |      | .43  | .40  |        | 2.68 |      |      |
| Phillipsburg.....                          | do.....         |               |   |   |     |   |   |   |   |   |    |     | .25  | .05 |     |    |     | .38 |     |      |    |    |    |    | .04 |     |     | .03  |      | 1.15 | .83  | 2.20 |        | 5.16 |      |      |
| Sussex.....                                | Hudson.....     |               |   |   | .14 |   |   |   |   |   |    | T.  | .13  | .06 |     |    |     | .37 |     |      |    |    |    |    |     | .68 |     | .48  |      | .53  | .35  | .93  |        | 3.67 |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Bergen Point.....                          | Coast.....      |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Boonton   .....                            | Passaic.....    |               |   |   | .21 |   |   |   |   |   |    |     | .25  |     | .01 |    |     | T.  | .23 |      |    |    |    |    |     |     | .19 |      | .32  | T.   |      | 1.19 | 1.08   |      | 3.48 |      |
| Chatham   .....                            | do.....         |               |   |   | .15 |   |   |   |   |   |    |     | .32  |     | T.  |    |     | .29 |     |      |    |    |    |    |     |     | .05 |      | .41  | .05  |      | .55  | 1.73   |      | 3.59 |      |
| Elizabeth.....                             | Coast.....      |               |   |   | .11 |   |   |   |   |   |    |     | .25  | T.  |     |    |     | .01 | .32 |      |    |    |    |    |     |     |     |      | .18  | T.   | 1.15 | .07  | 1.07   |      | 3.21 |      |
| Flemington.....                            | Raritan.....    |               |   |   | .20 |   |   |   |   |   |    |     | .05  |     |     |    |     | .08 |     |      |    |    |    |    |     | .09 |     |      | .18  |      |      |      |        |      |      |      |
| Highwood.....                              | Hackensack..... |               |   |   | .09 |   |   |   |   |   |    |     | T.   | .11 | T.  |    |     | .35 |     |      |    |    |    |    |     |     |     |      | .16  | .50  | 1.07 | .08  | .54    |      | 2.68 |      |
| Jersey City.....                           | Coast.....      |               |   |   | .05 |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      | 3.10 |      |
| Kearny.....                                | Coast.....      |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Lambertville.....                          | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     | .35  |     |     |    |     | .28 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      | 3.41 |      |
| Little Falls.                              | Passaic.....    |               |   |   | .15 |   |   |   |   |   |    |     |      |     |     |    |     | .28 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      | 3.39 |      |
| Newark**.....                              | Coast.....      |               |   |   | .18 |   |   |   |   |   |    |     | .26  |     | .02 |    |     | .06 | .29 |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| New Brunswick.....                         | Raritan.....    |               |   |   | .03 |   |   |   |   |   |    |     | .58  |     | .01 |    | .67 |     |     |      |    |    |    |    |     |     |     |      |      | .04  |      | 1.13 | 1.02   | 1.43 | .20  | 5.26 |
| New Milford.....                           | Hackensack..... |               |   |   |     |   |   |   |   |   |    |     | T.   | .04 |     |    | .07 |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      | 1.92 |      |
| Paterson.....                              | Passaic.....    |               |   |   | .08 |   |   |   |   |   |    |     | .02  | .09 | T.  |    |     | .28 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Plainfield.....                            | Raritan.....    |               |   |   | .18 |   |   |   |   |   |    |     | .24  | .05 | .02 |    |     | .20 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Bridgefield**.....                         | Hackensack..... |               |   |   | .12 |   |   |   |   |   |    |     | .13  |     |     |    |     | .37 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Somerville.....                            | Raritan.....    |               |   |   | .07 |   |   |   |   |   |    |     | .13  |     |     |    |     | .12 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| South Orange.....                          | Rahway.....     |               |   |   | *   |   |   |   |   |   |    |     | .62  |     | .04 |    |     | .35 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Woodcliff Lake.....                        | Hackensack..... |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| New York, N. Y***                          | Coast.....      |               |   |   | .04 |   |   |   |   |   |    |     | T.   | .32 | T.  | T. |     | .24 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| <i>The Southern Interior.</i>              |                 |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Bridgeton.....                             | Coast.....      |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Burlington.....                            | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     | .12  |     |     |    |     | .05 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Camp Dix   .....                           | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     | .05  | .18 |     |    |     | .03 | T.  |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Layton.....                                | Maurice.....    |               |   |   |     |   |   |   |   |   |    |     | .42  |     |     |    |     | .03 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Mammothton.....                            | Mullica.....    |               |   |   |     |   |   |   |   |   |    |     | .99  |     |     |    |     | \$  |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Nightstown.....                            | Raritan.....    |               |   |   |     |   |   |   |   |   |    |     | 1.10 | .09 |     |    |     | T.  | .04 |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Millaytown.....                            | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     | .05 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Indian Mills.....                          | Mullica.....    |               |   |   |     |   |   |   |   |   |    |     | .43  |     |     |    |     | .05 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Lakewood.....                              | Metedeconk..... |               |   |   |     |   |   |   |   |   |    |     | .35  |     |     |    |     | .05 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Moorestown.....                            | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     | T.   | .27 |     |    |     | .02 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Northfield.....                            | Coast.....      |               |   |   | .01 |   |   |   |   |   |    |     | .05  |     |     |    |     | *   |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Pleasantville.....                         | Coast.....      |               |   |   |     |   |   |   |   |   |    |     | .15  |     |     |    |     | .20 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Princeton***.....                          | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     | .12  |     |     |    |     | .03 | .02 |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Rockertown.....                            | Coast.....      |               |   |   | .05 |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Shelton.....                               | Maurice.....    |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     | .01 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Woodbine.....                              | Coast.....      |               |   |   |     |   |   |   |   |   |    |     | .08  |     |     |    |     | .11 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Philadelphia, Pa.....                      | Delaware.....   |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     | .33 |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| <i>The Sea Coast.</i>                      |                 |               |   |   |     |   |   |   |   |   |    |     |      |     |     |    |     |     |     |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Shirley Park.....                          | Coast.....      |               |   |   |     |   |   |   |   |   |    |     | .67  |     |     |    |     |     | .20 | 1.08 |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Atlantic City***                           | do.....         |               |   |   |     |   |   |   |   |   |    |     | .11  | .01 |     |    |     |     | .04 |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Cape May City.....                         | do.....         |               |   |   |     |   |   |   |   |   |    |     | .12  | T.  |     |    |     |     | .01 | .02  |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Long Branch**.....                         | do.....         |               |   |   |     |   |   |   |   |   |    |     | .20  |     |     |    |     |     | .05 |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |
| Sandy Hook***.....                         | do.....         |               |   |   |     |   |   |   |   |   |    |     | .02  |     |     |    |     |     | .14 |      |    |    |    |    |     |     |     |      |      |      |      |      |        |      |      |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Amount recorded on April 30, and so published. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine.                             |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity.<br>per cent. at 8 a. m. | Relative humidity.<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 29.98         | 30.28    | 6     | 29.63   | 13    | 7                | 23              | ne.        | 5         | 72                                         | 74                                         | 69                                  |
| Long Branch.....      | 30.02         | 30.30    | 6     | 29.70   | 15    | 8                | 24              | nw.        | 14        | 75                                         | 78                                         | 69                                  |
| Newark.....           |               |          |       |         |       |                  | 62              | nw.        | 28        | 68*                                        | 63†                                        | 61                                  |
| New York, N. Y.....   | 29.96         | 30.27    | 6     | 29.58   | 13    | 15               | 63              | w.         | 11        | 69                                         | 60                                         | 70                                  |
| Philadelphia, Pa..... | 29.99         | 30.31    | 6     | 29.63   | 13    | 10               | 31              | s.         | 29        | 73                                         | 70                                         | 72                                  |
| Bridgefield.....      | 29.96         | 30.26    | 6     | 29.57   | 13    |                  |                 |            |           |                                            |                                            |                                     |
| Long Hook.....        | 29.97         | 30.31    | 6     | 29.57   | 13    | 13               | 51              | nw.        | 28        | 74                                         | 72                                         | 71                                  |
| Princeton.....        | 29.96         | 30.28    | 6     | 29.58   | 13    | 10               | 58              | n.         | 27        | 70                                         | 68                                         | 69                                  |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for June, 1921.

| Stations.                            | 1  | 2  | 3     | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20 | 21    | 22 | 23 | 24    | 25 | 26    | 27 | 28 | 29 | 30    | 31                | Mean.             |       |                   |
|--------------------------------------|----|----|-------|-----|----|----|----|----|----|----|----|----|-------|-------|-------|-------|-------|-------|-------|----|-------|----|----|-------|----|-------|----|----|----|-------|-------------------|-------------------|-------|-------------------|
| The Highlands and Kittatinny Valley. |    |    |       |     |    |    |    |    |    |    |    |    |       |       |       |       |       |       |       |    |       |    |    |       |    |       |    |    |    |       |                   |                   |       |                   |
| Belvidere.....                       | 80 | 83 | 83    | 76  | 74 | 77 | 78 | 80 | 82 | 85 | 85 | 86 | 89    | 83    | 81    | 83    | 76    | 83    | 79    | 83 | 90    | 94 | 92 | 92    | 91 | 83    | 94 | 92 | 87 | 76    | .....             | 83.9              |       |                   |
|                                      | 47 | 46 | 44    | ... | 47 | 45 | 51 | 52 | 57 | 61 | 61 | 67 | 52    | 61    | 48    | 51    | 71    | 49    | 52    | 51 | 57    | 66 | 69 | 63    | 63 | 65    | 60 | 65 | 66 | 66    | 68                | .....             | 80.7  |                   |
| Charlotteburg.....                   | 54 | 33 | 33    | 53  | 38 | 41 | 39 | 47 | 43 | 53 | 58 | 66 | 45    | 58    | 45    | 40    | 57    | 49    | 45    | 45 | 51    | 63 | 65 | 62    | 53 | 58    | 56 | 59 | 63 | 65    | .....             | 51.2              |       |                   |
|                                      | 81 | 73 | 81    | 78  | 72 | 77 | 78 | 78 | 78 | 82 | 86 | 84 | 87    | 75    | 80    | 82    | 73    | 83    | 78    | 83 | 90    | 96 | 92 | 89    | 89 | 77    | 91 | 91 | 88 | 73    | .....             | 82.2              |       |                   |
| Dover.....                           | 58 | 40 | 38    | 57  | 47 | 43 | 47 | 49 | 56 | 58 | 61 | 62 | 50    | 56    | 48    | 49    | 58    | 52    | 50    | 50 | 55    | 69 | 70 | 88    | 90 | 84    | 97 | 92 | 81 | 77    | .....             | 82.9              |       |                   |
|                                      | 78 | 75 | 80    | 76  | 74 | 75 | 78 | 81 | 82 | 84 | 86 | 80 | 86    | 82    | 80    | 82    | 72    | 82    | 80    | 82 | 94    | 97 | 93 | 88    | 90 | 84    | 91 | 61 | 62 | 65    | .....             | 53.0 <sup>a</sup> |       |                   |
| Layton.....                          | 53 | 38 | 42    | 54  | 39 | 38 | 43 | 45 | 49 | 54 | 62 | 64 | 47    | 56    | 44    | ..... | 58    | 54    | 45    | 42 | 50    | 64 | 68 | 60    | 55 | 61    | 61 | 62 | 65 | ..... | 82.1              |                   |       |                   |
|                                      | 79 | 73 | 79    | 75  | 70 | 74 | 75 | 77 | 78 | 82 | 86 | 81 | 85    | 85    | 78    | 81    | 80    | 80    | 78    | 79 | 90    | 93 | 90 | 91    | 88 | 86    | 96 | 91 | 85 | 77    | .....             | 57.1 <sup>a</sup> |       |                   |
| Newton.....                          | 57 | 44 | 45    | 63  | 48 | 48 | 50 | 52 | 54 | 52 | 61 | 65 | 54    | ..... | 48    | 53    | 59    | 51    | 51    | 50 | 56    | 69 | 70 | 65    | 60 | 68    | 64 | 66 | 66 | ..... | 84.5 <sup>b</sup> |                   |       |                   |
| Phillipsburg.....                    | 83 | 80 | 83    | 79  | 78 | 72 | 80 | 83 | 83 | 89 | 88 | 81 | 86    | ..... | ..... | ..... | 70    | 85    | 83    | 87 | 94    | 97 | 94 | 90    | 91 | 85    | 96 | 93 | 84 | ..... | 53.7 <sup>b</sup> |                   |       |                   |
| Sussex.....                          | 54 | 34 | 42    | 64  | 42 | 39 | 45 | 47 | 54 | 56 | 61 | 61 | ..... | ..... | ..... | ..... | 58    | 45    | 46    | 44 | ..... | 63 | 69 | ..... | 61 | ..... | 63 | 66 | 67 | ..... | .....             |                   |       |                   |
| The Red Sandstone Plain.             |    |    |       |     |    |    |    |    |    |    |    |    |       |       |       |       |       |       |       |    |       |    |    |       |    |       |    |    |    |       |                   |                   |       |                   |
| Bergen Point.....                    | 80 | 74 | 79    | 80  | 75 | 77 | 76 | 79 | 80 | 80 | 85 | 84 | 86    | 77    | 80    | 83    | 68    | 82    | 78    | 82 | 90    | 94 | 89 | 90    | 89 | 78    | 93 | 92 | 89 | 76    | .....             | 82.2              |       |                   |
|                                      | 53 | 42 | 36    | 54  | 47 | 41 | 46 | 48 | 50 | 57 | 60 | 61 | 51    | 62    | 56    | 47    | 59    | 50    | 49    | 48 | 53    | 66 | 68 | 62    | 58 | 61    | 58 | 63 | 65 | ..... | 54.6              |                   |       |                   |
| Boonton§§.....                       | 82 | 74 | 82    | 75  | 80 | 81 | 79 | 78 | 81 | 89 | 88 | 90 | 81    | 62    | 82    | 85    | 76    | 85    | 78    | 83 | 93    | 98 | 98 | 92    | 95 | 93    | 79 | 95 | 93 | 91    | 77                | .....             | 84.7  |                   |
| Elizabeth.....                       | 55 | 47 | 41    | 62  | 50 | 45 | 47 | 53 | 52 | 62 | 60 | 67 | 53    | 61    | 52    | 51    | 62    | 50    | 53    | 52 | 54    | 68 | 71 | 64    | 61 | 64    | 62 | 68 | 66 | 69    | .....             | 57.4              |       |                   |
|                                      | 80 | 79 | 81    | 79  | 80 | 78 | 73 | 80 | 80 | 86 | 87 | 87 | 93    | 86    | 83    | 85    | 80    | 86    | 82    | 87 | 93    | 97 | 94 | 94    | 95 | 90    | 94 | 91 | 91 | 80    | .....             | 85.7              |       |                   |
| Flemington.....                      | 54 | 48 | 41    | 64  | 50 | 44 | 49 | 52 | 54 | 62 | 61 | 68 | 52    | 63    | 52    | 51    | 63    | 56    | 51    | 51 | 52    | 68 | 73 | 67    | 64 | 65    | 65 | 65 | 67 | 70    | .....             | 58.2              |       |                   |
|                                      | 75 | 72 | 79    | 74  | 70 | 73 | 72 | 75 | 78 | 78 | 85 | 83 | 88    | 81    | 81    | 84    | 72    | 82    | 76    | 81 | 81    | 93 | 86 | 89    | 86 | 77    | 86 | 82 | 83 | 76    | .....             | 80.2              |       |                   |
| Highwood.....                        | 55 | 47 | 43    | 63  | 48 | 44 | 47 | 53 | 50 | 56 | 61 | 67 | 51    | 62    | 48    | 46    | 59    | 49    | 51    | 51 | 57    | 67 | 70 | 63    | 61 | 63    | 61 | 68 | 66 | ..... | 56.5              |                   |       |                   |
|                                      | 80 | 70 | 77    | 82  | 77 | 78 | 79 | 78 | 80 | 77 | 89 | 87 | 89    | 84    | 84    | 86    | 79    | 87    | 80    | 82 | 93    | 97 | 88 | 92    | 91 | 80    | 89 | 89 | 89 | 77    | .....             | 83.7              |       |                   |
| Jersey City.....                     | 60 | 57 | 52    | 65  | 55 | 55 | 56 | 55 | 59 | 62 | 61 | 67 | 61    | 64    | 58    | 59    | 64    | 57    | 58    | 59 | 60    | 71 | 70 | 69    | 69 | 66    | 66 | 67 | 68 | 69    | .....             | 62.0              |       |                   |
|                                      | 81 | 75 | 84    | 74  | 79 | 77 | 78 | 78 | 81 | 81 | 89 | 84 | 87    | 74    | 74    | 84    | 68    | 84    | 79    | 84 | 92    | 96 | 90 | 89    | 89 | 81    | 91 | 90 | 90 | 74    | .....             | 82.6              |       |                   |
| Kearny.....                          | 60 | 53 | ..... | 54  | 52 | 52 | 54 | 58 | 58 | 56 | 63 | 60 | 69    | 60    | 57    | 57    | 60    | 60    | 60    | 60 | 60    | 60 | 63 | 72    | 75 | 69    | 67 | 66 | 66 | 68    | 70                | 68                | ..... | 61.5 <sup>a</sup> |
|                                      | 82 | 78 | 84    | 82  | 81 | 79 | 80 | 82 | 83 | 86 | 88 | 88 | 91    | 79    | 84    | 88    | 72    | 87    | 83    | 88 | 94    | 98 | 99 | 96    | 94 | 86    | 95 | 89 | 93 | 78    | .....             | 86.0              |       |                   |
| Lambertville.....                    | 58 | 47 | 44    | 60  | 48 | 46 | 50 | 54 | 55 | 59 | 62 | 68 | 55    | 64    | 53    | 50    | 63    | 54    | 55    | 54 | 60    | 69 | 76 | 66    | 62 | 65    | 63 | 68 | 67 | 70    | .....             | 58.8              |       |                   |
| Little Falls.....                    | 59 | 69 | 61    | 75  | 73 | 76 | 78 | 76 | 76 | 78 | 81 | 84 | 86    | 75    | 78    | 83    | 72    | 75    | 78    | 82 | 92    | 97 | 88 | 91    | 90 | 76    | 91 | 90 | 92 | 73    | .....             | 81.2              |       |                   |
| Newark.....                          | 58 | 52 | 52    | 60  | 53 | 57 | 57 | 58 | 58 | 63 | 60 | 68 | 57    | 62    | 59    | 60    | 60    | 56    | 55    | 60 | 62    | 72 | 74 | 71    | 70 | 66    | 67 | 69 | 70 | 68    | .....             | 61.8              |       |                   |
|                                      | 80 | 73 | 79    | 78  | 76 | 78 | 77 | 74 | 78 | 88 | 87 | 90 | 87    | 81    | 83    | 81    | 83    | 82    | 82    | 91 | 96    | 93 | 92 | 92    | 91 | 90    | 94 | 90 | 88 | ..... | 84.4              |                   |       |                   |
| New Brunswick.....                   | 55 | 50 | 43    | 62  | 50 | 47 | 50 | 54 | 53 | 62 | 59 | 68 | 57    | 64    | 54    | 54    | 63    | 53    | 54    | 54 | 56    | 62 | 73 | 68    | 65 | 64    | 63 | 65 | 68 | 69    | .....             | 58.6              |       |                   |
|                                      | 82 | 74 | 82    | 79  | 74 | 78 | 81 | 80 | 79 | 82 | 90 | 86 | 87    | 83    | 85    | 77    | 85    | 78    | 85    | 93 | 100   | 92 | 93 | 92    | 87 | 94    | 87 | 88 | 84 | ..... | 84.8              |                   |       |                   |
| Paterson.....                        | 59 | 49 | 47    | 65  | 50 | 50 | 52 | 55 | 55 | 60 | 62 | 68 | 57    | 63    | 55    | 55    | 63    | 54    | 53    | 56 | 60    | 72 | 75 | 69    | 65 | 65    | 63 | 69 | 68 | 69    | .....             | 60.1              |       |                   |
|                                      | 82 | 71 | 81    | 78  | 72 | 76 | 77 | 78 | 77 | 80 | 88 | 85 | 90    | 80    | 80    | 82    | 70    | 84    | 77    | 82 | 92    | 96 | 94 | 68    | 64 | 62    | 61 | 60 | 62 | 64    | .....             | 82.7              |       |                   |
| Plainfield.....                      | 52 | 45 | 39    | 62  | 50 | 45 | 46 | 50 | 50 | 56 | 60 | 61 | 53    | 54    | 50    | 49    | 62    | 54    | 53    | 51 | 53    | 64 | 68 | 64    | 62 | 61    | 60 | 62 | 64 | ..... | 55.9              |                   |       |                   |
|                                      | 78 | 71 | 78    | 78  | 74 | 75 | 77 | 76 | 75 | 78 | 85 | 83 | 87    | 76    | 79    | 81    | 66    | 84    | 75    | 81 | 93    | 94 | 87 | 89    | 87 | 77    | 89 | 85 | 88 | 72    | .....             | 80.5              |       |                   |
| Ridgefield.....                      | 57 | 49 | 46    | 58  | 49 | 45 | 50 | 55 | 53 | 59 | 60 | 61 | 53    | 54    | 51    | 49    | 55    | 49    | 52    | 53 | 57    | 68 | 69 | 65    | 63 | 66    | 62 | 67 | 66 | 65    | .....             | 56.8              |       |                   |
|                                      | 83 | 76 | 82    | 80  | 77 | 77 | 76 | 81 | 81 | 84 | 89 | 87 | 91    | 87    | 82    | 84    | 80    | 85    | 80    | 84 | 92    | 97 | 94 | 93    | 94 | 84    | 93 | 96 | 89 | 75    | .....             | 85.1              |       |                   |
| Somerville.....                      | 55 | 50 | 43    | 64  | 52 | 46 | 54 | 54 | 55 | 63 | 61 | 68 | 54    | ..... | 52    | 52    | 65    | 53    | 54    | 54 | 55    | 68 | 72 | 68    | 66 | 65    | 65 | 67 | 70 | ..... | 59.1 <sup>a</sup> |                   |       |                   |
|                                      | 78 | 70 | 80    | 76  | 72 | 74 | 75 | 78 | 76 | 79 | 86 | 82 | 86    | 74    | 79    | 82    | 69    | 83    | 75    | 79 | 90    | 93 | 88 | 90    | 88 | 88    | 89 | 90 | 88 | 73    | .....             | 81.0              |       |                   |
| South Orange.....                    | 56 | 51 | 46    | 59  | 52 | 53 | 49 | 54 | 54 | 62 | 60 | 68 | 55    | 59    | 56    | 55    | 60    | 57    | 59    | 57 | 56    | 69 | 82 | 72    | 65 | 65    | 64 | 63 | 67 | 67    | .....             | 59.2              |       |                   |
|                                      | 78 | 69 | 73    | 76  | 71 | 73 | 74 | 72 | 71 | 75 | 83 | 82 | 86    | 72    | 78    | 80    | 70    | 81    | 72    | 77 | 88    | 93 | 86 | 89    | 86 | 74    | 86 | 86 | 88 | 72    | .....             | 78.7              |       |                   |
| New York, N. Y.....                  | 60 | 57 | 53    | 62  | 55 | 57 | 58 | 59 | 59 | 60 | 60 | 68 | 62    | 62    | 58    | 60    | 60    | 58    | 57    | 59 | 60    | 69 | 70 | 70    | 71 | 66    | 66 | 67 | 69 | 64    | .....             | 61.9              |       |                   |
| The Southern Interior.               |    |    |       |     |    |    |    |    |    |    |    |    |       |       |       |       |       |       |       |    |       |    |    |       |    |       |    |    |    |       |                   |                   |       |                   |
| Bridgeton.....                       | 82 | 75 | 83    | 82  | 74 | 78 | 72 | 74 | 78 | 80 | 90 | 90 | 92    | 90    | 85    | 87    | 84    | 89    | 81    | 85 | 92    | 98 | 92 | 97    | 95 | 82    | 94 | 98 | 97 | 90    | .....             | 86.2              |       |                   |
|                                      | 54 | 54 | 43    | 65  | 50 | 47 | 57 | 57 | 54 | 62 | 60 | 69 | 52    | 57    | 50    | 54    | 63    | 56    | 57    | 52 | 61    | 67 | 74 | 69    | 71 | 68    | 67 | 68 | 70 | ..... | 60.1              |                   |       |                   |
| Burlington.....                      | 52 | 77 | 82    | 84  | 78 | 79 | 76 | 78 | 82 | 83 | 89 | 88 | 91    | 89    | 83    | 84    | 82    | 85    | 83    | 83 | 89    | 97 | 94 | 95    | 93 | 87    | 94 | 93 | 91 | 84    | .....             | 85.8              |       |                   |
|                                      | 55 | 52 | 44    | 63  | 52 | 51 | 53 | 56 | 57 | 64 | 59 | 68 | 57    | 62    | 55    | 56    | 59    | 56    | 57    | 54 | 58    | 68 | 74 | 70    | 67 | 65    | 68 | 66 | 68 | 70    | .....             | 60.2              |       |                   |
| Camp Dix.....                        | 83 | 74 | 80    | 79  | 77 | 78 | 73 | 78 | 78 | 83 | 89 | 89 | 86    | 80    | 82    | 80    | 85    | 83    | 83    | 90 | 97    | 94 | 96 | 94    | 91 | 96    | 96 | 91 | 96 | 96    | .....             | 85.6              |       |                   |
|                                      | 52 | 47 | 37    | 60  | 48 | 45 | 48 | 55 | 51 | 62 | 57 | 66 | 54    | 59    | 49    | 50    | 62    | 52    | 54    | 47 | 56    | 65 | 68 | 66    | 61 | 61    | 64 | 63 | 65 | 69    | .....             | 56.4              |       |                   |
| Clayton.....                         | 79 | 73 | 79    | 80  | 72 | 77 | 70 | 75 | 80 | 83 | 89 | 88 | 87    | ..... | ..... | ..... | ..... | ..... | ..... |    |       |    |    |       |    |       |    |    |    |       |                   |                   |       |                   |

<sup>a</sup>, <sup>b</sup>, <sup>c</sup>, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.  
to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged



551.05  
UNWJU. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

STANLEY S. SCHWORM, Meteorologist,  
Temporarily in Charge.

VOL. XXVI. TRENTON, N. J., JULY, 1921. No. 7.

## GENERAL SUMMARY.

The month was very warm, with high humidity and violent local thunderstorms. While the monthly maxima were slightly below the July average, the daily plus departures were so consistently maintained throughout the month that, with the exception of the years 1887 and 1901, it was the warmest July in New Jersey in 37 years. There was some temporary and scattered relief from the oppressiveness during the period from the 10th to 20th, when showers and nearly normal temperatures prevailed. There was a deficiency of practically one inch in the rainfall throughout the State, only nine stations reporting an excess for the month. Heavy local thunderstorms occurred on the 19th, 26th, and 31st. The storm during the evening of the 19th was the most violent experienced in many years in the north-central districts. It was of comparatively short duration, but the area covered comprised portions of Hunterdon, Somerset, Mercer, Middlesex, and Monmouth Counties. It was attended by torrential rains; Flemington reporting 4.48 inches in five hours. For a few hours flood conditions prevailed along the Raritan River, which rose as much as ten feet in many places, but rapidly receded the following morning. Much damage to crops was caused by the overflowing, and many mills along the stream were forced to close; while on the Neshanic, a tributary, covered bridges at South Clover Hill and West's Mill were washed away. High winds and severe lightning caused considerable damage throughout the area to buildings and crops. Many barns and several churches were struck and burned, while a man was burned to death near Hopewell when his barn was set afire by lightning. A peculiar wind storm occurred at South Eatontown during the forenoon of the 19th, when a house and outbuildings were wrecked and several trees measuring three feet across were uprooted. There was no damage elsewhere on the farm, and the storm lasted but thirty seconds. It started about five hundred yards to the southwest of the house and ended a short distance beyond it.

## TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 76.5°, which was 2.8° above the normal. The highest temperature was 99° at Vineland on the 4th, and the lowest, 43° at Charlotteburg on the 23d. The highest monthly mean temperature was 79.4° at Bridgeton and Vineland, and the lowest, 72.6° at Charlotteburg. The greatest daily range of temperature was 38° at Charlotteburg on the 23d. The temperature departure for the year 1921 to date, by sections, is: The Highlands, +4.2°; Red Sandstone Plain, +4.2°; Southern Interior, +4.2°; Sea Coast, +3.6°.

## PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 41 stations was 3.62 inches, which was 0.99 inch below the normal. The greatest monthly rainfall was 7.36 inches at New Brunswick, and the least, 1.66 inches at Paterson. The greatest amount of rain in any 24 consecutive hours was 4.91 inches at New Brunswick on the 20th. The mean of the number of days on which 0.01 inch or more of rain fell was 10, or normal. The precipitation accumulated departure from the normal

for the year 1921 to date, by sections, is: The Highlands, -1.66 inches; Red Sandstone Plain, -1.97 inches; Southern Interior, -3.98 inches; Sea Coast, -3.66 inches.

## WIND.

The prevailing wind direction was from the southwest, with an approximate velocity of 8 miles per hour, which was somewhat below the normal. The highest velocity, sustained for 5 consecutive minutes, was 52 miles per hour from the south on the 19th at Sandy Hook.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 14, which was 2 more than the normal; partly cloudy, 9, or 3 less than the normal; cloudy, 8, or 1 more than the normal. The approximate percentage of possible sunshine was 62, which was about normal.

## MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.4 feet, and highest stage, 4.7 feet on the 20th. At Trenton the mean stage was 1.2 feet, which was normal. The highest stage, 4.2 feet, occurred on the 20th.

Thunderstorms occurred in some portions of the State on the 1st, 2d, 9th, 10th, 14th, 15th, 17th, 19th, 20th, 25th, 26th, 28th, 29th, 30th, and 31st. Dense fog was observed on the 7th, 10th, 11th, 12th, 13th, 18th, 22d, 25th, and 31st. Haze and smoke were noted daily from the 3d to 9th. Solar halos were observed on the 1st, 9th, and 27th. Hail occurred as follows: 26th, slight damage at Somerville; severe damage at Waterford; 31st, few stones at Plainfield and Trenton; minor damage at Asbury Park, Hightstown, Highwood, Paterson (near), Ridgefield, and Sussex.

## COMPARATIVE DATA FOR JULY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 75.2         | 100      | 44      | 3.50           | 7.28      | 1.29   | .....        | .....          | .....   | .....                  |
| 1886..... | 73.0         | 98       | 48      | 4.91           | 7.95      | 2.98   | .....        | .....          | .....   | .....                  |
| 1887..... | 77.1         | 102      | 54      | 7.67           | 15.29     | 1.95   | .....        | .....          | .....   | 11                     |
| 1888..... | 71.1         | 95       | 45      | 3.50           | 7.03      | 1.25   | .....        | .....          | .....   | 8                      |
| 1889..... | 73.4         | 95       | 48      | 10.19          | 18.58     | 4.66   | .....        | .....          | .....   | 13                     |
| 1890..... | 72.5         | 101      | 39      | 5.62           | 7.55      | 3.60   | 12           | 11             | 8       | 9                      |
| 1891..... | 70.1         | 95       | 43      | 5.30           | 9.41      | 3.03   | 10           | 11             | 10      | 12                     |
| 1892..... | 74.3         | 105      | 44      | 4.03           | 7.96      | 2.38   | 12           | 14             | 5       | 8                      |
| 1893..... | 73.9         | 102      | 40      | 2.72           | 4.63      | 1.26   | 14           | 13             | 4       | 8                      |
| 1894..... | 75.7         | 106      | 44      | 1.66           | 5.00      | 0.75   | 14           | 12             | 5       | 6                      |
| 1895..... | 70.9         | 99       | 41      | 4.26           | 7.73      | 1.53   | 12           | 12             | 7       | 10                     |
| 1896..... | 75.0         | 98       | 47      | 5.50           | 13.29     | 2.45   | 13           | 10             | 8       | 13                     |
| 1897..... | 74.1         | 102      | 50      | 11.42          | 20.80     | 6.11   | 10           | 11             | 10      | 15                     |
| 1898..... | 75.3         | 107      | 38      | 4.96           | 11.72     | 2.23   | 11           | 13             | 7       | 10                     |
| 1899..... | 74.7         | 98       | 38      | 5.75           | 9.02      | 3.34   | 13           | 11             | 7       | 11                     |
| 1900..... | 75.9         | 104      | 42      | 4.74           | 7.21      | 1.11   | 15           | 12             | 4       | 11                     |
| 1901..... | 77.3         | 107      | 45      | 5.87           | 10.92     | 1.89   | 9            | 13             | 9       | 14                     |
| 1902..... | 73.0         | 100      | 43      | 4.78           | 9.92      | 1.83   | 10           | 12             | 9       | 13                     |
| 1903..... | 73.3         | 100      | 38      | 5.51           | 10.14     | 3.08   | 16           | 10             | 5       | 12                     |
| 1904..... | 72.3         | 98       | 42      | 4.87           | 8.06      | 2.41   | 13           | 10             | 8       | 13                     |
| 1905..... | 74.4         | 102      | 42      | 4.06           | 8.19      | 1.67   | 12           | 13             | 6       | 12                     |
| 1906..... | 72.8         | 94       | 46      | 5.58           | 13.25     | 3.44   | 11           | 14             | 6       | 12                     |
| 1907..... | 73.6         | 96       | 40      | 2.62           | 6.42      | 0.95   | 8            | 12             | 11      | 8                      |
| 1908..... | 75.6         | 106      | 42      | 4.70           | 8.12      | 1.97   | 12           | 13             | 6       | 9                      |
| 1909..... | 71.6         | 99       | 35      | 2.12           | 4.08      | 1.03   | 14           | 14             | 3       | 5                      |
| 1910..... | 75.3         | 99       | 42      | 1.96           | 5.33      | 0.22   | 12           | 12             | 7       | 5                      |
| 1911..... | 76.0         | 104      | 42      | 3.64           | 6.46      | 2.06   | 12           | 12             | 7       | 8                      |
| 1912..... | 73.7         | 100      | 35      | 3.86           | 9.91      | 1.01   | 14           | 10             | 7       | 9                      |
| 1913..... | 74.4         | 100      | 41      | 2.52           | 4.72      | 1.50   | 20           | 9              | 2       | 8                      |
| 1914..... | 71.5         | 97       | 40      | 6.05           | 8.57      | 1.94   | 9            | 11             | 11      | 15                     |
| 1915..... | 72.8         | 98       | 44      | 5.31           | 11.06     | 2.23   | 10           | 13             | 8       | 14                     |
| 1916..... | 74.4         | 97       | 45      | 5.40           | 9.01      | 3.15   | 11           | 9              | 11      | 12                     |
| 1917..... | 74.2         | 104      | 46      | 4.83           | 7.93      | 2.38   | 10           | 11             | 10      | 12                     |
| 1918..... | 72.2         | 104      | 39      | 3.93           | 13.60     | 1.20   | 17           | 9              | 5       | 8                      |
| 1919..... | 73.5         | 103      | 43      | 8.39           | 14.14     | 4.45   | 14           | 7              | 10      | 14                     |
| 1920..... | 71.7         | 96       | 42      | 5.76           | 16.25     | 1.20   | 17           | 10             | 4       | 11                     |
| 1921..... | 76.5         | 99       | 43      | 3.62           | 7.36      | 1.66   | 14           | 9              | 8       | 10                     |



## Climatological Data for July, 1921.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |                 |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|-----------------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest.         | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 30                       | 75.6                          | +2.4                       | 92              | 4     | 61              | 16†   | 25                        | 3.31   | -1.67                      | 1.43                  | 0                          | 5                              | 24     | 1           | 6                             | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 29                       | 72.6                          | +2.6                       | 92              | 4†    | 49              | 23    | 38                        | 6.19   | +1.36                      | 1.55                  | 0                          | 8                              | 18     | 9           | 4                             | sw.        | George S. Briggs.         |
| Culvers Lake††.....                         | Sussex.....     | 848              | 20                       | 75.0                          | .....                      | 92              | ..... | 50              | 16†   | 29                        | 3.75   | -0.82                      | 1.23                  | 0                          | 10                             | 21     | 3           | 8                             | sw.        | Brie E. Riker.            |
| Dover.....                                  | Morris.....     | 600              | 37                       | 75.0 <sup>a</sup>             | +3.6                       | 92              | 4     | 58              | 17    | 29                        | 2.78   | -2.49                      | 0.79                  | 0                          | 10                             | 1      | 22          | 8                             | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 20                       | 75.0                          | +4.1                       | 96              | 4     | 54              | 17    | 33                        | 3.93   | -0.16                      | 1.40                  | 0                          | 9                              | 21     | 3           | 7                             | w.         | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 38                       | 75.2                          | +2.7                       | 91              | 4     | 58 <sup>a</sup> | 23    | 27                        | 3.35   | -1.61                      | 1.14                  | 0                          | 8                              | 13     | 10          | 8                             | sw.        | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 75.8 <sup>b</sup>             | +3.7                       | 95              | 4†    | 55              | 16†   | 35                        | 3.74   | -0.66                      | 0.71                  | 0                          | 10                             | 13     | 5           | 13                            | sw.        | Mrs. D. Wilson Smith.     |
| Sussex.....                                 | Sussex.....     | 442              | 27                       | 75.8 <sup>b</sup>             | +3.7                       | 95              | 4†    | 55              | 16†   | 35                        | 3.74   | -0.66                      | 0.71                  | 0                          | 10                             | 13     | 5           | 13                            | sw.        | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 74.9                          | +3.2                       | 96              | 4     | 49              | 23    | 38                        | 3.86   | -0.86                      | 1.55                  | 0                          | 9                              | 16     | 8           | 7                             | sw.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 24                       | 76.6 <sup>d</sup>             | +2.6                       | 93              | 28    | 61              | 17†   | 30 <sup>d</sup>           | .....  | .....                      | 1.09                  | 0                          | .....                          | .....  | .....       | .....                         | sw.        | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 31                       | 75.2                          | +3.4                       | 95              | 4     | 54              | 22†   | 36                        | 2.22   | -2.68                      | 0.92                  | 0                          | 11                             | .....  | .....       | .....                         | .....      | J. W. Demmers.            |
| Chatham.....                                | Morris.....     | 185              | 17                       | 75.2                          | +3.4                       | 95              | 4     | 54              | 22†   | 36                        | 2.22   | -2.68                      | 0.92                  | 0                          | 11                             | .....  | .....       | .....                         | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 42                       | 77.6                          | +2.3                       | 97              | 26    | 57              | 23    | 33                        | 4.17   | -0.99                      | 1.80                  | 0                          | 8                              | 15     | 8           | 8                             | w.         | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 35                       | 77.7                          | +3.1                       | 96              | 4     | 59              | 17†   | 30                        | 6.24   | +1.02                      | 4.71                  | 0                          | 8                              | 20     | 5           | 6                             | sw.        | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 33                       | 74.5                          | +2.2                       | 92              | 28    | 56              | 22    | 27                        | 2.96   | -1.99                      | 0.80                  | 0                          | 15                             | 10     | 9           | 12                            | sw.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 78.6                          | +2.5                       | 97              | 3     | 63              | 22†   | 30                        | 1.99   | -2.45                      | 0.97                  | 0                          | 10                             | 10     | 10          | 11                            | sw.        | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 2                        | 78.2                          | .....                      | 95              | 3†    | 61              | 23    | 30                        | 2.68   | .....                      | 0.92                  | 0                          | 8                              | 12     | 10          | 9                             | s.         | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 300              | 34                       | 77.7                          | +3.1                       | 96              | 4     | 59              | 17†   | 30                        | 6.24   | +1.02                      | 4.71                  | 0                          | 8                              | 20     | 5           | 6                             | sw.        | Thomas R. Hunt.           |
| Little Falls.....                           | Passaic.....    | 180              | 31                       | 78.4                          | +4.6                       | 96              | 3†    | 58              | 23    | 35                        | 2.30   | -2.09                      | 0.75                  | 0                          | 13                             | 13     | 6           | 12                            | w.         | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 79                       | 77.8                          | +3.2                       | 95              | 3†    | 63              | 1†    | 27                        | 2.33   | -2.48                      | 1.13                  | 0                          | 12                             | 5      | 18          | 8                             | sw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 68                       | 76.8                          | +2.6                       | 94              | 4     | 59              | 17†   | 29                        | 7.36   | +2.34                      | 4.91                  | 0                          | 12                             | 19     | 7           | 5                             | e          | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 80               | 50                       | 78.0                          | +3.6                       | 96              | 27†   | 60              | 17†   | 29                        | 1.66   | -3.36                      | 0.85                  | 0                          | 10                             | 3      | 2           | 26                            | sw.        | Haekensack Water Co.      |
| Paterson.....                               | Passaic.....    | 110              | 33                       | 75.6                          | +1.6                       | 94              | 4†    | 55              | 23    | 34                        | 6.32   | +0.49                      | 2.75                  | 0                          | 13                             | 12     | 10          | 9                             | sw.        | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 110              | 33                       | 75.6                          | +1.6                       | 94              | 4†    | 55              | 23    | 34                        | 6.32   | +0.49                      | 2.75                  | 0                          | 13                             | 12     | 10          | 9                             | sw.        | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 70               | 6                        | 75.4                          | .....                      | 93              | 27†   | 57              | 22†   | 29                        | 2.18   | .....                      | 0.61                  | 0                          | 10                             | 10     | 12          | 9                             | sw.        | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 38                       | 77.6                          | +3.5                       | 96              | 4     | 59              | 23    | 29                        | 5.84   | +0.73                      | 3.01                  | 0                          | 8                              | 19     | 5           | 7                             | w.         | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 200              | 51                       | 76.4                          | +3.2                       | 93              | 27†   | 60              | 17†   | 25                        | 2.58   | -2.43                      | 0.95                  | 0                          | 11                             | 14     | 12          | 5                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake††.....                       | Bergen.....     | 365              | 51                       | 76.2                          | +2.7                       | 93              | 4     | 62              | 1     | 22                        | 3.10   | -1.44                      | 1.15                  | 0                          | 8                              | 6      | 12          | 13                            | sw.        | Haekensack Water Co.      |
| New York, N. Y.....                         |                 |                  |                          | 77.0                          | +2.9                       | 97              | 3†    | 54              | 22†   | 36                        | 3.54   | -1.24                      | 4.91                  | 0                          | 11                             | 13     | 9           | 9                             | sw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 77.0                          | +2.9                       | 97              | 3†    | 54              | 22†   | 36                        | 3.54   | -1.24                      | 4.91                  | 0                          | 11                             | 13     | 9           | 9                             | sw.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton.....                              | Cumberland..... | 30               | 40                       | 79.4                          | +2.7                       | 97              | 4†    | 60              | 23    | 28                        | 3.59   | -0.90                      | 1.50                  | 0                          | 9                              | 21     | 3           | 7                             | sw.        | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 35                       | 78.0                          | +3.2                       | 95              | 4     | 61              | 17†   | 26                        | 3.17   | -1.66                      | 1.75                  | 0                          | 8                              | 20     | 4           | 7                             | sw.        | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 3                        | 77.0                          | .....                      | 97              | 28    | 54 <sup>a</sup> | 23    | 34                        | 2.48   | .....                      | 0.86                  | 0                          | 12                             | 8      | 4           | 19                            | se.        | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 28                       | 78.0                          | +3.0                       | 98              | 9     | 57              | 17†   | 32                        | 2.67   | -2.18                      | 1.35                  | 0                          | 9                              | 16     | 5           | 10                            | s.         | Marvin E. Porch.          |
| Hammonton.....                              | Atlantic.....   | 103              | 20                       | 76.2                          | +1.8                       | 94              | 27    | 56              | 23    | 29                        | 3.44   | -1.27                      | 1.14                  | 0                          | 11                             | 20     | 10          | 1                             | sw.        | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 29                       | 76.2                          | +1.8                       | 94              | 27    | 56              | 23    | 29                        | 3.44   | -1.27                      | 1.14                  | 0                          | 11                             | 20     | 10          | 1                             | sw.        | E. H. Savage, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 33                       | 76.8                          | +2.1                       | 96              | 27    | 55              | 23    | 32                        | 2.43   | -2.33                      | 0.95                  | 0                          | 10                             | 17     | 7           | 7                             | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 32                       | 76.4                          | +1.7                       | 96              | 4†    | 53              | 22    | 34                        | 3.58   | -1.08                      | 0.87                  | 0                          | 13                             | 10     | 13          | 8                             | sw.        | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 17                       | 77.4                          | +4.6                       | 95              | 28    | 55              | 22†   | 32                        | 2.45   | -2.40                      | 0.75                  | 0                          | 11                             | 17     | 5           | 9                             | sw.        | R. W. Holman.             |
| Moorestown.....                             | Burlington..... | 75               | 58                       | 77.6 <sup>b</sup>             | +2.9                       | 95 <sup>1</sup> | 27    | 57              | 23    | 30                        | 3.46   | -1.22                      | 1.32                  | 0                          | 10                             | .....  | .....       | .....                         | .....      | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 14                       | 77.6 <sup>b</sup>             | +2.9                       | 95 <sup>1</sup> | 27    | 57              | 23    | 30                        | 3.46   | -1.22                      | 1.32                  | 0                          | 10                             | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 23                       | 77.6 <sup>b</sup>             | +2.9                       | 95 <sup>1</sup> | 27    | 57              | 23    | 30                        | 3.46   | -1.22                      | 1.32                  | 0                          | 10                             | .....  | .....       | .....                         | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 49                       | 76.8                          | +2.3                       | 95              | 4     | 61              | 22    | 26                        | 2.01   | -2.76                      | 0.70                  | 0                          | 8                              | 10     | 7           | 14                            | sw.        | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 28                       | 77.6                          | +3.5                       | 97              | 4     | 56              | 17    | 29                        | 3.54   | +0.06                      | 1.30                  | 0                          | 9                              | 13     | 15          | 3                             | .....      | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 52                       | 79.4                          | +3.0                       | 99              | 4     | 59              | 22    | 30                        | 2.90   | -1.67                      | 0.80                  | 0                          | 11                             | 18     | 9           | 4                             | sw.        | H. C. Himes.              |
| Woodbine.....                               | Cape May.....   | 43               | 25                       | 78.6                          | +2.8                       | 96              | 4     | 65              | 1     | 23                        | 4.04   | -0.29                      | 1.15                  | 0                          | 12                             | 7      | 9           | 15                            | sw.        | W. I. Zechman.            |
| Philadelphia, Pa.....                       |                 | 117              | 51                       | 78.6                          | +2.8                       | 96              | 4     | 65              | 1     | 23                        | 4.04   | -0.29                      | 1.15                  | 0                          | 12                             | 7      | 9           | 15                            | sw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 77.6                          | +2.8                       | 99              | 4     | 53              | 22    | 34                        | 3.28   | -1.24                      | 2.00                  | 0                          | 10                             | 16     | 7           | 8                             | sw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 32                       | 73.8                          | +1.4                       | 93              | 28    | 61              | 1†    | 24                        | 4.20   | -0.34                      | 1.13                  | 0                          | 10                             | 14     | 13          | 4                             | ne.        | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 74.2                          | +1.7                       | 93              | 4     | 63              | 22    | 19                        | 3.29   | -0.49                      | 1.81                  | 0                          | 9                              | 12     | 9           | 10                            | sw.        | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 37                       | 76.3                          | +2.9                       | 95              | 4     | 62              | 22    | 21                        | 3.08   | -0.70                      | 2.04                  | 0                          | 12                             | 11     | 7           | 13                            | s.         | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 14                       | 74.0                          | +1.9                       | 97              | 28    | 60              | 17†   | 22                        | 5.54   | +0.62                      | 4.59                  | 0                          | 6                              | 24     | 7           | 0                             | s.         | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 23                       | 75.9                          | +2.2                       | 92              | 4     | 62              | 1     | 22                        | 6.42   | +1.63                      | 4.44                  | 0                          | 11                             | 5      | 16          | 10                            | sw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 74.9                          | +2.0                       | 97              | 28    | 60              | 17†   | 24                        | 4.51   | +0.14                      | 4.59                  | 0                          | 10                             | 13     | 10          | 8                             | sw.        |                           |
| For the State.....                          |                 |                  |                          | 76.5                          | +2.8                       | 99              | 4     | 49              | 23    | 38                        | 3.62   | -0.99                      | 4.91                  | 0                          | 10                             | 14     | 9           | 8                             | sw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



| Daily Precipitation for July, 1921.        |                 |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
|--------------------------------------------|-----------------|---------------|------|-----|---|----|---|---|---|-----|------|------|-----|-----|------|------|------|-----|-----|------|------|-----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|--------|------|------|
| Stations.                                  | Drainage Basin. | Day of month. |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     | Total. |      |      |
|                                            |                 | 1             | 2    | 3   | 4 | 5  | 6 | 7 | 8 | 9   | 10   | 11   | 12  | 13  | 14   | 15   | 16   | 17  | 18  | 19   | 20   | 21  | 22  | 23  | 24  | 25  | 26   | 27  | 28   | 29  | 30  | 31  |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Belvidere.....                             | Delaware.....   |               |      |     |   |    |   |   |   | *   | 1.43 | .05  |     |     |      | .76  |      |     |     |      | .93  |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Charlotteburg.....                         | Passaic.....    |               | .07  |     |   |    |   |   |   |     | .70  | 1.55 |     |     |      | 1.50 | T.   |     |     | 1.36 | T.   |     |     |     |     |     |      |     |      | .14 |     |     | 3.31   |      |      |
| Culvers Lake.....                          | Delaware.....   | .10           | .11  |     |   |    |   |   |   |     | .33  | .01  | T.  |     | .48  | 1.23 |      |     |     | .02  | .93  |     |     |     |     |     | .48  |     |      | .54 |     |     | 6.19   |      |      |
| Dover.....                                 | Passaic.....    |               | .06  |     |   |    |   |   |   | *   | .21  | .04  |     | .06 |      | .67  |      |     |     | .63  |      |     |     |     |     |     |      | .14 |      | *   | .30 |     |        | 3.75 |      |
| Layton.....                                | Delaware.....   | .04           | .24  |     |   |    |   |   |   |     | 1.40 | .04  |     |     | .42  | .30  |      |     |     | .09  | 1.06 |     |     |     |     |     |      | .79 |      |     | .42 |     |        | 2.78 |      |
| Newton.....                                | Delaware.....   | .03           |      |     |   |    |   |   |   |     | .62  | .08  |     |     |      | 1.01 |      |     |     |      | 1.14 |     |     |     |     | .01 |      | .13 |      | .34 |     |     | 3.93   |      |      |
| Phillipsburg.....                          | do.....         |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     | .33  |     |     |     | 3.35   |      |      |
| Sussex.....                                | Hudson.....     | T.            | .02  |     |   |    |   |   |   | T.  | .55  | .02  |     |     | .02  | .71  |      |     |     |      | .21  | .71 |     |     |     |     |      | .57 |      |     | .44 |     | .49    | 3.74 |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Bergen Point.....                          | Coast.....      |               |      |     |   |    |   |   |   | T.  | T.   |      | T.  |     |      | 1.09 |      |     |     | T.   | .69  | .22 |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Boonton.....                               | Passaic.....    | .01           | .01  | .02 |   |    |   |   |   |     | .56  | .05  |     | .03 |      | .13  |      |     |     |      | .92  | T.  | T.  |     |     |     |      | T.  | .18  | T.  | .52 | .15 | .17    |      |      |
| Chatham.....                               | do.....         | .03           | .01  | .05 |   |    |   |   |   |     | .06  |      | T.  | .02 | T.   | T.   | .94  |     |     |      | .87  |     | .01 |     |     |     |      |     | .18  |     | .10 | .21 |        | 2.22 |      |
| Elizabeth.....                             | Coast.....      | T.            | .07  |     |   |    |   |   |   | T.  | T.   |      |     | T.  | T.   | 1.80 | .04  |     |     |      | 1.10 |     |     |     |     |     |      |     | .05  |     | .03 | .17 |        | 2.24 |      |
| Flemington.....                            | Raritan.....    | .02           | .03  |     |   |    |   |   |   |     | .31  | T.   |     | T.  | .10  | .73  |      | .30 |     | T.   | 4.71 |     |     |     |     |     |      |     | .02  | T.  | .02 | .02 | .50    | 4.17 |      |
| Highwood.....                              | Hackensack..... | .08           | T.   |     |   |    |   |   |   | .02 | .10  | .02  |     | .05 | .10  | .75  | .01  |     |     |      | .18  | .62 | .25 |     |     |     |      | .32 |      | T.  | .04 | .12 | .10    | 6.24 |      |
| Jersey City.....                           | Coast.....      | .10           | T.   |     |   |    |   |   |   | T.  | .20  | T.   |     | .02 | T.   | .97  |      |     |     |      | .45  | .01 |     |     |     |     |      |     |      |     |     |     |        | 2.96 |      |
| Kearny.....                                | Coast.....      | .01           |      |     |   |    |   |   |   | T.  |      | T.   |     | .06 | .02  | .80  |      |     |     |      | .92  |     |     |     |     |     |      | .02 | T.   | .01 | .18 | .03 | T.     | 1.99 |      |
| Lambertville.....                          | Delaware.....   |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     | .50  |     | .28  |     | .09 |     |        | 2.68 |      |
| Little Falls.....                          | Passaic.....    | .02           | .08  | .03 |   |    |   |   |   |     | .04  | .01  |     | .04 |      | .03  | .61  |     |     |      | .75  |     | .04 |     |     |     |      |     |      |     |     |     |        |      |      |
| Newark**.....                              | Coast.....      | T.            | .03  |     |   |    |   |   |   | .03 | .07  |      | .07 |     |      | .42  | .03  |     |     |      | 1.13 | .06 |     | .04 |     |     |      |     | .48  |     | .02 | .15 |        | 2.30 |      |
| New Brunswick.....                         | Raritan.....    | .06           | .15  | T.  |   |    |   |   |   | T.  | .16  | T.   |     |     |      | 1.62 | T.   | .02 | .03 |      | 4.91 | T.  |     |     |     |     | .23  | .15 |      | .07 | .15 | .04 | 2.33   |      |      |
| New Milford.....                           | Hackensack..... |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     | .15  | T.  | .05  | .16 | .01 | .04 | 7.36   |      |      |
| Paterson.....                              | Passaic.....    | .05           | .03  |     |   |    |   |   |   | .03 | .02  | .02  |     | .05 | T.   | .41  |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Plainfield.....                            | Raritan.....    |               | .10  |     |   |    |   |   |   | .40 | .06  |      |     | .01 |      | 2.75 | .01  |     |     |      | 1.58 | .65 | .04 |     |     |     | .04  |     | T.   | .16 | T.  | T.  | 1.66   |      |      |
| Ridgefield**.....                          | Hackensack..... | .15           |      |     |   |    |   |   |   | .15 | T.   |      |     | .09 | T.   | .61  |      |     |     |      | .55  | T.  | .03 |     |     |     |      | .02 |      | T.  | .18 | .04 | .48    | 6.32 |      |
| Somerville.....                            | Raritan.....    |               | .09  |     |   |    |   |   |   | T.  | .12  |      |     |     |      | 1.39 |      | .39 |     |      | 3.01 |     | .05 |     |     |     | .08  |     | .03  |     | .21 | .28 | 2.18   |      |      |
| South Orange.....                          | Rahway.....     | .06           | .10  |     |   |    |   |   |   | T.  | T.   |      |     | .07 | .02  | .70  |      |     |     |      | *    | .95 | T.  |     |     |     |      | .67 |      | .12 |     |     | 5.84   |      |      |
| Woodcliff Lake.....                        | Hackensack..... |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     | .03  |     | .47  | .16 |     | .02 | 2.58   |      |      |
| New York, N. Y***                          | Coast.....      | .09           | T.   |     |   |    |   |   |   | .01 | .63  | T.   |     | .02 | T.   | 1.15 |      |     |     | .65  | T.   |     | T.  |     |     |     |      | .05 | T.   | T.  | .50 |     | T.     | 3.10 |      |
| <i>The Southern Interior.</i>              |                 |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Bridgeton.....                             | Coast.....      |               | .22  |     |   |    |   |   |   |     | .45  | .20  | .04 |     |      | 1.20 | .30  |     |     |      | .35  |     |     |     |     |     |      |     |      | .35 | .40 | .08 | 3.59   |      |      |
| Burlington.....                            | Delaware.....   | .04           | .09  |     |   |    |   |   |   |     | 1.75 | T.   |     | .10 |      | .75  | .12  |     |     |      | .08  |     |     |     |     |     |      |     |      |     | *   | .24 | *      | 3.17 |      |
| Camp Dix.....                              | Delaware.....   | .10           | .04  |     |   | T. |   |   |   | .22 |      | .01  | .06 | .01 |      | .69  |      |     |     | .11  | .01  | T.  |     |     |     |     | .02  |     |      |     | .35 |     | .86    | 2.48 |      |
| Clayton.....                               | Maurice.....    | .02           | T.   |     |   |    |   |   |   |     | .03  | .11  | T.  |     |      | 1.35 | .32  |     |     |      | .16  |     |     |     |     |     |      |     |      | .09 | .57 | .02 |        | 2.67 |      |
| Hammononton.....                           | Mullica.....    | .07           | .02  |     |   |    |   |   |   | .55 | .07  |      |     | .30 |      | .87  | .27  |     |     |      | .30  |     |     |     |     |     |      |     | .10  | .44 | .45 |     | 3.44   |      |      |
| Hightstown.....                            | Raritan.....    | 1.05          | .08  |     |   |    |   |   |   | .39 | .02  |      |     |     |      | 1.38 | .05  |     |     |      | 2.00 |     |     |     |     |     |      |     |      | .04 | .06 | .02 | .52    | 5.61 |      |
| Maytown.....                               | Delaware.....   | .03           | .10  |     |   |    |   |   |   |     | .03  |      |     |     |      | .68  | .20  | .95 |     |      |      | .06 |     |     |     |     |      |     |      |     | .11 | .05 | .22    | 2.43 |      |
| Indian Mills.....                          | Mullica.....    | .07           | .10  |     |   |    |   |   |   | .44 | .06  |      | .03 | .87 | .07  | .70  | .17  |     |     |      | .25  |     |     |     |     | .06 |      |     | .06  | .70 |     | T.  | 3.58   |      |      |
| Lakewood.....                              | Metedeconk..... | .14           | .15  |     |   |    |   |   |   |     | T.   |      | T.  | .02 | .50  | .14  | .06  |     |     |      | .29  | T.  |     |     |     |     | .25  |     |      | .75 | .06 | .09 |        | 2.45 |      |
| Moorestown.....                            | Delaware.....   | .05           | .09  |     |   |    |   |   |   |     | .25  |      |     |     | .08  | *    | .77  |     |     |      | .08  |     |     |     |     |     |      |     | 1.32 |     | .58 | .24 | 3.46   |      |      |
| Northfield.....                            | Coast.....      | .18           | 1.57 |     |   |    |   |   |   |     | .03  |      | .04 | T.  |      | .9*  | .51  |     |     |      | .07  |     |     |     | .04 |     |      |     |      |     | .35 | .03 | .42    | 4.22 |      |
| Pleasantville.....                         | Coast.....      |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Trenton***.....                            | Delaware.....   | .08           | .10  |     |   |    |   |   |   | T.  | .70  | T.   | T.  | T.  | .42  | .07  | T.   |     | .11 |      | T.   |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| uckerton.....                              | Coast.....      |               | .62  |     |   | T. |   |   |   | T.  | .48  |      | .04 | .09 |      | 1.30 | .12  |     |     |      |      |     |     |     |     |     |      |     |      |     | T.  | .12 |        | .41  | 2.01 |
| inealand.....                              | Maurice.....    |               | *    |     |   |    |   |   |   |     | .24  | .02  | .02 | .10 | .03  | .80  | .47  |     |     |      |      |     |     |     |     |     |      |     |      | .78 | .06 | .45 |        | 3.94 |      |
| Woodbine.....                              | Coast.....      |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Philadelphia, Pa.                          | Delaware.....   | .02           | .01  |     |   |    |   |   |   |     | .28  | .37  | T.  | .05 | .22  | .94  | .09  |     |     |      | .06  |     |     |     |     |     |      |     |      |     |     | .60 | .59    | 2.90 |      |
| <i>The Sea Coast.</i>                      |                 |               |      |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Asbury Park.....                           | Coast.....      | .06           | .18  |     |   |    |   |   |   |     |      |      |     |     |      |      |      |     |     |      |      |     |     |     |     |     |      |     |      |     |     |     |        |      |      |
| Atlantic City***                           | do.....         | .19           | .49  | T.  |   |    |   |   |   | T.  |      |      |     |     | .02  | .36  |      | .01 |     | .73  |      |     |     |     |     |     | 1.13 | T.  | .21  | .68 |     | .82 |        | 4.20 |      |
| ape May City.....                          | do.....         | .02           |      |     |   |    |   |   |   |     |      | .03  | .06 |     |      | 1.79 | .02  |     |     | .06  | T.   |     |     |     |     |     | T.   | T.  |      |     | .60 | .05 |        | 3.29 |      |
| ong Branch**.....                          | do.....         |               | .10  |     |   |    |   |   |   |     |      | .01  | .12 | .28 | 1.44 | .60  |      |     |     |      | .02  | .29 |     |     |     |     |      |     |      |     | .29 | T.  | .39    | 3.08 |      |
| andy Hook***.....                          | do.....         | .54           | .03  |     |   |    |   |   |   | T.  |      |      |     |     | .01  | T.   |      |     |     |      | 4.38 | .21 |     |     |     |     |      |     |      |     | .27 | .29 |        | 5.54 |      |
|                                            |                 |               |      |     |   |    |   |   |   |     |      |      |     |     |      | .16  | 4.28 |     |     |      | 1.12 | .03 |     |     |     |     | .06  |     | .03  | .15 | .01 |     |        | 6.42 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.  
\*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

| MISCELLANEOUS DATA.   |               |          |       |         |       |                  |                 |            |       |                                            |                                            |               |  |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|---------------|--|
| Stations.             | Pressure.     |          |       |         |       | Hourly velocity. | Wind.           |            |       | Moisture.                                  |                                            | Sun-<br>shine |  |
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. |                  | Miles per hour. | Highest.   |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. |               |  |
|                       |               |          |       |         |       |                  |                 | Direction. | Date. |                                            |                                            |               |  |
| Atlantic City.....    | 29.99         | 30.29    | 24    | 29.62   | 19    | 7                | 20              | w.         | 20    | 85                                         | 88                                         | 60            |  |
| May City.....         | 30.03         | 30.29    | 24    | 29.62   | 31    | 7                | 24              | s.         | 14    | 85                                         | 90                                         | .....         |  |
| Branch.....           | .....         | .....    | ..... | .....   | ..... | .....            | 51              | s.         | 14    | 74                                         | 70†                                        | .....         |  |
| Ark.....              | .....         | .....    | ..... | .....   | ..... | .....            | .....           | .....      | ..... | .....                                      | .....                                      | .....         |  |
| York, N. Y.....       | 29.99         | 30.23    | 25    | 29.65   | 31    | 12               | 50              | s.         | 19    | 79                                         | 75                                         | 58            |  |
| Philadelphia, Pa..... | 30.01         | 30.26    | 24    | 29.68   | 19    | 7                | 29              | nw.        | 31    | 85                                         | 81                                         | 56            |  |
| Effield.....          | 29.99         | 30.24    | 25    | 29.65   | 31    | .....            | .....           | .....      | ..... | .....                                      | .....                                      | .....         |  |
| ly Hook.....          | 29.99         | 30.25    | 25    | 29.61   | 20    | 11               | 52              | s.         | 19    | 84                                         | 82                                         | 67            |  |
| ton.....              | 29.90         | 30.25    | 25    | 29.61   | 19    | 9                | 37              | w.         | 31    | 82                                         | 74                                         | 59            |  |

† Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for July, 1921.

| Stations.                            | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |       |      |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| Belvidere.....                       | Maximum | 77    | 76    | 91    | 92    | 83    | 82    | 89    | 91    | 89    | 83    | 79    | 84    | 86    | 88    | 79    | 82    | 82    | 85    | 89    | 84    | 81    | 85    | 86    | 85    | 87    | 88    | 90    | 90    | 79    | 84    | 87    | 84.9  |      |
|                                      | Minimum | 63    | 66    | 65    | 68    | 70    | 62    | 65    | 72    | 70    | 69    | 70    | 70    | 67    | 71    | 69    | 61    | 61    | 63    | 67    | 67    | 62    | 61    | 62    | 65    | 62    | 67    | 68    | 71    | 71    | 66    | 65    | 66.3  |      |
| Charlotteburg.....                   | Maximum | 73    | 76    | 90    | 92    | 88    | 84    | 92    | 90    | 90    | 84    | 78    | 82    | 86    | 85    | 83    | 81    | 80    | 81    | 84    | 81    | 79    | 82    | 87    | 86    | 89    | 90    | 90    | 87    | 86    | 87    | 85.0  |       |      |
|                                      | Minimum | 59    | 62    | 60    | 62    | 63    | 53    | 61    | 65    | 68    | 65    | 68    | 69    | 65    | 68    | 64    | 57    | 50    | 55    | 55    | 65    | 57    | 51    | 49    | 56    | 60    | 55    | 58    | 68    | 57    | 59    | 58    | 60.1  |      |
| Dover.....                           | Maximum | 73    | 74    | 91    | 92    | 83    | 81    | 90    | 90    | 91    | 82    | 76    | 80    | 83    | 87    | 78    | 82    | 84    | 85    | 84    | 86    | 79    | 78    | 85    | 86    | 90    | 90    | 89    | 79    | 84    | 86    | 85.8  |       |      |
|                                      | Minimum | 61    | 64    | 65    | 67    | 64    | 59    | 68    | 71    | 70    | 69    | 70    | 70    | 69    | 71    | 68    | 59    | 58    | 64    | 68    | 67    | 62    | 59    | ..... | 61    | 67    | 64    | 72    | 72    | 64    | 66    | 65.8  |       |      |
| Layton.....                          | Maximum | 76    | 79    | 92    | 96    | 76    | 84    | 93    | 94    | 91    | 86    | 79    | 84    | 89    | 87    | 75    | 85    | 86    | 85    | 84    | 86    | 82    | 84    | 89    | 88    | 90    | 92    | 94    | 79    | 88    | 91    | 86.3  |       |      |
|                                      | Minimum | 62    | 64    | 63    | 65    | 63    | 58    | 65    | 70    | 66    | 68    | 71    | 71    | 71    | 68    | 64    | 58    | 54    | 60    | 66    | 65    | 61    | 58    | 56    | 60    | 61    | 62    | 64    | 70    | 68    | 64    | 63    | 63.8  |      |
| Newton.....                          | Maximum | 73    | 76    | 90    | 91    | 86    | 80    | 89    | 90    | 88    | 82    | 77    | 89    | 86    | 86    | 82    | 80    | 83    | 83    | 83    | 79    | 79    | 85    | 86    | 88    | 88    | 89    | 89    | 86    | 86    | 86    | 84.3  |       |      |
|                                      | Minimum | 60    | 69    | 65    | 67    | 72    | 59    | 66    | 71    | 72    | 68    | 70    | 70    | 68    | 71    | 68    | ..... | 59    | 63    | 67    | 60    | 62    | 59    | 58    | 65    | 64    | 68    | 65    | 72    | 69    | 68    | 68    | 66.1  |      |
| Phillipsburg.....                    | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |       |      |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Sussex.....                          | Maximum | 73    | 78    | 93    | 95    | 89    | 83    | 95    | 94    | 92    | 89    | 80    | 86    | 92    | 90    | 83    | 88    | 89    | 86    | 85    | 88    | 84    | 86    | 90    | 91    | 93    | 92    | 92    | 91    | 89    | 88    | 88    | 88.1  |      |
|                                      | Minimum | 60    | 64    | 63    | ..... | 67    | 58    | 61    | 73    | 68    | 63    | 70    | 70    | 68    | 70    | 64    | 55    | 55    | ..... | 70    | 66    | 60    | 56    | 55    | 62    | 60    | 62    | 62    | ..... | 64    | 70    | 63    | 63.5  |      |
| The Red Sandstone Plain.             |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| Bergen Point.....                    | Maximum | ..... | ..... | 91    | 92    | 84    | 82    | 88    | 88    | 85    | 83    | 80    | 84    | 84    | 91    | 82    | 82    | 84    | 85    | 87    | 85    | 78    | 81    | 85    | 87    | 90    | 89    | 92    | 93    | 83    | 86    | 87    | 85.8  |      |
|                                      | Minimum | ..... | ..... | ..... | ..... | 72    | 68    | 63    | 63    | ..... | 73    | 73    | 70    | 70    | 69    | ..... | 62    | 64    | 61    | 61    | 67    | 67    | 62    | 61    | 65    | 66    | 70    | 69    | 74    | 73    | 69    | 69    | 67.3  |      |
| Boonton§§.....                       | Maximum | 77    | 80    | 92    | 95    | 81    | 81    | 90    | 81    | 91    | 86    | 81    | 84    | 87    | 86    | 78    | 86    | 85    | 84    | 86    | 88    | 82    | 86    | 90    | 87    | 90    | 91    | 91    | 91    | 86    | 88    | ..... | 86.4  |      |
|                                      | Minimum | 62    | 63    | 63    | 66    | 69    | 58    | 65    | 70    | 70    | 67    | 70    | 70    | 63    | 69    | 71    | 60    | 56    | 59    | 64    | 69    | 61    | 54    | 54    | 59    | 60    | 65    | 63    | 70    | 70    | 66    | 62    | 64.1  |      |
| Elizabeth.....                       | Maximum | 73    | 82    | 96    | 96    | 88    | 84    | 90    | 94    | 92    | 86    | 84    | 84    | 86    | 91    | 82    | 85    | 89    | 89    | 90    | 90    | 83    | 84    | 90    | 89    | 94    | 97    | 96    | 95    | 90    | 89    | 90    | 88.6  |      |
|                                      | Minimum | 62    | 65    | 64    | 70    | 70    | 61    | 69    | 72    | 72    | 71    | 71    | 69    | 71    | 77    | 67    | 64    | 58    | 62    | 68    | 68    | 62    | 58    | 57    | 63    | 64    | 70    | 66    | 73    | 72    | 67    | 66    | 66.7  |      |
| Flemington.....                      | Maximum | 76    | 80    | 94    | 96    | 89    | 92    | 90    | 93    | 93    | 84    | 78    | 83    | 86    | 90    | 84    | 88    | 86    | 87    | 89    | 90    | 80    | 83    | 89    | 90    | 94    | 94    | 93    | 92    | 83    | 90    | 89    | 90    | 88.6 |
|                                      | Minimum | 64    | 67    | 66    | 72    | 69    | 63    | 70    | 73    | 73    | 72    | 72    | 70    | 72    | 72    | 70    | 63    | 59    | 62    | 67    | 68    | 65    | 60    | 59    | 63    | 63    | 68    | 66    | 73    | 73    | 68    | 68    | 67.4  |      |
| Highwood.....                        | Maximum | 69    | 75    | 91    | 90    | 83    | 79    | 88    | 90    | 81    | 81    | 79    | 79    | 83    | 86    | 81    | 81    | 86    | 82    | 86    | 77    | 76    | 84    | 87    | 88    | 90    | 91    | 92    | 81    | 86    | 82    | 83.5  |       |      |
|                                      | Minimum | 67    | 65    | 64    | 67    | 68    | 58    | 68    | 64    | 65    | 70    | 70    | 70    | 70    | 70    | 66    | 62    | 58    | 64    | 69    | 68    | 57    | 56    | 64    | 64    | 69    | 65    | 73    | 71    | 66    | 65    | 65.5  |       |      |
| Jersey City.....                     | Maximum | 72    | 78    | 97    | 95    | 89    | 81    | 91    | 94    | 89    | 84    | 83    | 85    | 84    | 93    | 85    | 84    | 88    | 88    | 87    | 90    | 81    | 84    | 88    | 91    | 92    | 94    | 95    | 95    | 87    | 89    | 93    | 87.9  |      |
|                                      | Minimum | 64    | 66    | 67    | 73    | 69    | 65    | 71    | 74    | 75    | 73    | 71    | 70    | 70    | 73    | 67    | 65    | 65    | 67    | 70    | 70    | 66    | 63    | 63    | 67    | 68    | 73    | 71    | 75    | 75    | 69    | 74    | 69.3  |      |
| Kearny.....                          | Maximum | 74    | 78    | 95    | 95    | 84    | 82    | 90    | 93    | 86    | 84    | 80    | 86    | 91    | 90    | 80    | 87    | 88    | 89    | 87    | 87    | 85    | 85    | 91    | 89    | 92    | 93    | 94    | 95    | 84    | 88    | 91    | 87.5  |      |
|                                      | Minimum | 63    | 67    | 68    | 74    | 67    | 62    | 71    | 75    | 76    | 71    | 72    | 71    | 70    | 73    | 67    | 65    | 64    | 66    | 70    | 70    | 65    | 61    | 67    | 68    | 70    | 71    | 73    | 69    | 71    | 68    | 68    | 68.8  |      |
| Lambertville.....                    | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Little Falls§§.....                  | Maximum | 74    | 80    | 96    | 96    | 82    | 83    | 93    | 94    | 89    | 87    | 84    | 88    | 95    | 94    | 79    | 91    | 89    | 90    | 89    | 90    | 87    | 88    | 93    | 91    | 96    | 96    | 95    | 85    | 89    | 92    | 89.4  |       |      |
|                                      | Minimum | 63    | 64    | 65    | 70    | 74    | 60    | 70    | 74    | 74    | 70    | 71    | 72    | 71    | 72    | 70    | 64    | 60    | 64    | 70    | 70    | 67    | 60    | 58    | 63    | 65    | 69    | 67    | 74    | 73    | 67    | 66    | 67.4  |      |
| Newark.....                          | Maximum | 71    | 79    | 95    | 95    | 81    | 82    | 90    | 92    | 86    | 82    | 80    | 81    | 82    | 90    | 80    | 82    | 85    | 88    | 87    | 88    | 78    | 83    | 88    | 89    | 93    | 92    | 94    | 94    | 85    | 88    | 91    | 86.2  |      |
|                                      | Minimum | 63    | 67    | 68    | 78    | 68    | 68    | 71    | 74    | 75    | 72    | 70    | 70    | 69    | 73    | 68    | 66    | 65    | 67    | 71    | 70    | 67    | 63    | 65    | 69    | 69    | 72    | 70    | 74    | 71    | 69    | 65    | 69.3  |      |
| New Brunswick.....                   | Maximum | 71    | 76    | 93    | 94    | 92    | 81    | 89    | 92    | 91    | 80    | 81    | 82    | 83    | 90    | 87    | 82    | 84    | 86    | 88    | 86    | 83    | 88    | 88    | 91    | 93    | 92    | 92    | 86    | 83    | 90    | 89    | 86.8  |      |
|                                      | Minimum | 62    | 65    | 64    | 70    | 67    | 62    | 70    | 71    | 72    | 69    | 70    | 70    | 72    | 68    | 65    | 59    | 62    | 68    | 68    | 65    | 60    | 59    | 64    | 69    | 70    | 68    | 74    | 73    | 68    | 69    | 67.2  |       |      |
| Paterson.....                        | Maximum | 72    | 77    | 95    | 95    | 85    | 83    | 92    | 94    | 89    | 89    | 82    | 83    | 85    | 90    | 86    | 85    | 88    | 89    | 88    | 90    | 82    | 84    | 89    | 91    | 93    | 95    | 96    | 91    | 89    | 92    | 88.6  |       |      |
|                                      | Minimum | 63    | 66    | 67    | 72    | 70    | 61    | 68    | 74    | 70    | 71    | 71    | 71    | 70    | 72    | 67    | 64    | 60    | 63    | 70    | 68    | 64    | 60    | 60    | 65    | 66    | 71    | 67    | 75    | 71    | 67    | 69    | 67.6  |      |
| Plainfield.....                      | Maximum | 73    | 79    | 93    | 94    | 82    | 82    | 90    | 93    | 91    | 82    | 79    | 83    | 84    | 90    | 83    | 85    | 85    | 87    | 90    | 85    | 79    | 82    | 89    | 89    | 92    | 93    | 94    | 93    | 84    | 88    | 92    | 86.6  |      |
|                                      | Minimum | 62    | 62    | 65    | 69    | 66    | 58    | 67    | 70    | 69    | 69    | 70    | 68    | 69    | 70    | 67    | 63    | 57    | 59    | 66    | 66    | 62    | 58    | 55    | 61    | 61    | 65    | 64    | 68    | 71    | 68    | 64    | 64.7  |      |
| Ridgefield.....                      | Maximum | 71    | 77    | 92    | 92    | 76    | 80    | 90    | 92    | 80    | 79    | 80    | 81    | 85    | 88    | 77    | 80    | 85    | 85    | 85    | 86    | 78    | 82    | 86    | 88    | 90    | 91    | 93    | 93    | 84    | 88    | 92    | 86.6  |      |
|                                      | Minimum | 61    | 64    | 65    | 70    | 60    | 60    | 70    | 73    | 72    | 71    | 69    | 69    | 70    | 71    | 65    | 63    | 60    | 65    | 68    | 68    | 61    | 57    | 57    | 65    | 65    | 70    | 71    | 73    | 71    | 67    | 69    | 69.6  |      |
| Somerville.....                      | Maximum | 77    | 80    | 94    | 96    | 86    | 83    | 91    | 94    | 93    | 85    | 82    | 86    | 85    | 91    | 84    | 86    | 87    | 88    | 84    | 84    | 81    | 88    | 89    | 92    | 94    | 95    |       |       |       |       |       |       |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

STANLEY S. SCHWORM, Meteorologist,  
Temporarily in Charge.

VOL. XXVI. TRENTON, N. J., AUGUST, 1921. No. 8.

### GENERAL SUMMARY.

August rainfall in New Jersey was in marked contrast in the year 1921 with that of 1920, in that there was much less in amount and frequency in 1921. While the total was nearly a normal quantity, it occurred principally on the 2d-3d, and 7th-8th, and in the latter half of the month there was very little, so that agriculture was experiencing a moderate drought. Other rainy days were the 14th and 17th-18th, and in the southern half of the State, on the 21st, 29th, and 31st. In nearly all portions of the State the rain was very heavy on the afternoon and evening of the 7th, extending into the 8th. Amounts exceeding 2 inches in about ten hours were frequent; at Burlington the rainfall was over 4 inches, and at Trenton 5.30 inches fell in nine hours and nine minutes. During this storm at Trenton, there were two occurrences in 35-minute periods of 1.05 inches and 1.51 inches; the greatest 30-minute record was 1.43 inches. This vast quantity of water, accumulating so rapidly, far exceeded all known records for central New Jersey, and local flooding with consequent damage resulted very generally.

Moderately cool weather prevailed with remarkable persistence during the month; there were but six or seven days that appreciably exceeded normal warmth, the other days being very agreeably cool. There have been but three cooler Augusts since 1885, viz. in 1886, 1889, and in 1903. In 1919 there was very little difference in temperature, being one tenth degree warmer than in 1921.

More than the usual amount of clear sky prevailed, making the month particularly favorable for out-door activities. The oppressiveness of excessive humidity was appreciably less than is ordinarily the case in August.

No storm warnings were displayed during the month.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 69.8°, which was 2.3° below normal. The highest temperature was 97° at Elizabeth on the 30th, and the lowest, 38°, at Charlotteburg on the 23d. The highest monthly mean temperature was 72.5° at Vineland, and the lowest, 64.9° at Charlotteburg. The greatest daily range of temperature was 40° at Charlotteburg and Little Falls on the 23d and 30th, respectively.

The temperature departure from normal for the year 1921 to date, by sections, is: The Highlands, +3.4°; Red Sandstone Plain, +3.4°; Southern Interior, +3.4°; Sea Coast, +3.0.

### PRECIPITATION.

The average total rainfall of the State, as deduced from observations of 42 stations, was 4.32 inches, which was 0.45 inch below normal. The greatest monthly amount was 8.01 inches at Trenton, and the least, 2.05 inches at Culvers Lake. The greatest amount accumulated in any 24 consecutive hours was 5.30 inches at Trenton, on the 7th-8th. The average number of days on which .01 inch or more rain fell was 9, which was 1 less than normal. The greatest frequency of rainy days was 12, and the least 6.

The accumulated precipitation departure from normal for the year 1921 to date, by sections is: The Highlands, -2.90 inches;

Red Sandstone Plain, -2.63 inches; Southern Interior, -3.82 inches; Sea Coast, -4.99 inches.

### WIND.

The prevailing wind movement was from the southwest, with an approximate velocity of 9 miles per hour, which was about normal. The highest velocity, sustained for 5 consecutive minutes, was 42 miles per hour from the south, at Long Branch on the 17th. There was a notable absence of wind squalls attendant upon the few thunderstorms that occurred.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, which was 5 more than normal; partly cloudy, 7, or 4 fewer than normal; cloudy, 6, or 1 less than normal. The percentage of possible sunshine approximated 65, which was slightly more than normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.09 inches, which was 0.09 inch above normal. Pressure readings ranged from 30.33 inches to 29.65 inches.

The mean stage of the Delaware River at Phillipsburg was 1.1 feet; the highest stage being 2.0 feet on the 4th. At Trenton, the mean daily stage was 0.8 foot, which was 0.2 foot below normal. The highest stage was 1.8 feet on the 1st.

Light hail occurred near Highwood on the 7th, without damage.

Thunderstorms occurred in some portions of the State on the 2d, 6th, 7th, 8th, 13th, 14th, 17th, 18th, 20th, 21st, 30th and 31st.

Dense fog occurred in various localities from the 10th to 15th, on the 20th, 24th, 25th 29th and 30th.

### COMPARATIVE DATA FOR AUGUST.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 71.7         | 95       | 40      | 6.11           | 10.09     | 3.47   | .....        | .....          | .....   | .....                  |
| 1886..... | 69.5         | 96       | 42      | 2.81           | 5.36      | 1.10   | .....        | .....          | .....   | .....                  |
| 1887..... | 70.4         | 94       | 42      | 3.76           | 7.34      | 2.09   | .....        | .....          | .....   | .....                  |
| 1888..... | 72.5         | 98       | 41      | 6.13           | 10.53     | 2.55   | .....        | .....          | .....   | .....                  |
| 1889..... | 69.6         | 91       | 45      | 5.13           | 9.06      | 1.93   | .....        | .....          | .....   | .....                  |
| 1890..... | 71.5         | 99       | 40      | 4.90           | 7.51      | 2.89   | .....        | .....          | .....   | .....                  |
| 1891..... | 72.8         | 100      | 46      | 5.32           | 8.89      | 2.58   | 8            | 15             | 8       | 10                     |
| 1892..... | 73.4         | 99       | 46      | 3.63           | 5.65      | 0.72   | 12           | 13             | 6       | 9                      |
| 1893..... | 72.8         | 98       | 38      | 6.52           | 11.94     | 3.55   | 14           | 11             | 6       | 8                      |
| 1894..... | 70.9         | 97       | 44      | 2.58           | 9.28      | 0.15   | 13           | 12             | 6       | 7                      |
| 1895..... | 71.2         | 102      | 34      | 2.53           | 5.06      | 0.02   | 16           | 12             | 3       | 7                      |
| 1896..... | 73.6         | 105      | 39      | 1.83           | 3.27      | 0.50   | 17           | 10             | 4       | 7                      |
| 1897..... | 71.0         | 91       | 41      | 4.39           | 8.69      | 2.07   | 14           | 12             | 5       | 9                      |
| 1898..... | 71.8         | 98       | 42      | 5.36           | 9.28      | 2.70   | 12           | 12             | 7       | 10                     |
| 1899..... | 72.3         | 99       | 39      | 4.36           | 9.70      | 2.16   | 10           | 12             | 9       | 9                      |
| 1900..... | 75.3         | 104      | 41      | 2.68           | 4.56      | 0.70   | 15           | 11             | 5       | 10                     |
| 1901..... | 73.8         | 98       | 44      | 9.43           | 15.80     | 4.88   | 12           | 10             | 9       | 11                     |
| 1902..... | 70.1         | 93       | 40      | 3.91           | 10.67     | 1.31   | 15           | 13             | 3       | 9                      |
| 1903..... | 68.4         | 98       | 39      | 6.95           | 11.54     | 4.30   | 10           | 10             | 11      | 13                     |
| 1904..... | 70.8         | 92       | 37      | 6.62           | 13.01     | 2.65   | 15           | 10             | 6       | 9                      |
| 1905..... | 71.1         | 95       | 38      | 5.72           | 9.88      | 3.51   | 13           | 10             | 8       | 12                     |
| 1906..... | 71.6         | 97       | 42      | 5.95           | 17.91     | 2.21   | 10           | 11             | 10      | 13                     |
| 1907..... | 70.5         | 96       | 39      | 3.45           | 7.61      | 1.79   | 14           | 12             | 5       | 10                     |
| 1908..... | 70.6         | 103      | 36      | 5.05           | 9.23      | 2.43   | 11           | 10             | 10      | 10                     |
| 1909..... | 70.2         | 100      | 34      | 4.59           | 12.94     | 1.41   | 14           | 9              | 8       | 6                      |
| 1910..... | 70.4         | 92       | 36      | 3.78           | 8.46      | 1.76   | 9            | 10             | 12      | 10                     |
| 1911..... | 72.1         | 101      | 39      | 8.91           | 14.74     | 5.31   | 10           | 11             | 10      | 11                     |
| 1912..... | 70.0         | 95       | 35      | 3.12           | 7.62      | 1.19   | 12           | 13             | 6       | 10                     |
| 1913..... | 71.7         | 100      | 38      | 4.06           | 10.21     | 1.93   | 18           | 9              | 4       | 10                     |
| 1914..... | 73.3         | 98       | 42      | 3.15           | 6.53      | 1.04   | 13           | 12             | 6       | 9                      |
| 1915..... | 70.9         | 98       | 41      | 7.73           | 10.92     | 4.02   | 11           | 11             | 9       | 13                     |
| 1916..... | 73.2         | 100      | 40      | 1.34           | 4.15      | 0.27   | 20           | 7              | 4       | 8                      |
| 1917..... | 74.0         | 103      | 41      | 2.21           | 5.68      | 0.86   | 18           | 9              | 4       | 7                      |
| 1918..... | 74.4         | 108      | 40      | 1.85           | 4.25      | 0.31   | 18           | 7              | 6       | 13                     |
| 1919..... | 69.9         | 98       | 38      | 6.89           | 12.88     | 3.09   | 13           | 10             | 8       | 17                     |
| 1920..... | 72.3         | 94       | 42      | 6.10           | 10.60     | 2.94   | 8            | 11             | 12      | 17                     |
| 1921..... | 69.8         | 97       | 38      | 4.32           | 8.01      | 2.05   | 18           | 7              | 6       | 9                      |



## Climatological Data for August, 1921.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Observers. |         |                               |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|------------|---------|-------------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |            | Cloudy. | Prevailing direction of wind. |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |            |         |                               |
| Belvidere.....                              | Warren.....     | 289              | 30                       | 68.0                          | -3.0                       | 89       | 30    | 48      | 23    | 27                        | 4.42   | -0.19                      | 1.85                  | 0                          | 7                              | 23     | 1           | 7          | sw.     | Samuel J. Hixson.             |
| Charlotteburg.....                          | Passaic.....    | 719              | 29                       | 64.9                          | -3.0                       | 89       | 30    | 38      | 23    | 40                        | 3.70   | -0.92                      | 1.85                  | 0                          | 7                              | 23     | 7           | 1          | sw.     | George S. Briggs.             |
| Culvers Lake.....                           | Sussex.....     | 848              | 20                       | 66.6                          | -2.5                       | 90       | 30    | 41      | 22    | 31                        | 2.05   | -2.37                      | 0.70                  | 0                          | 8                              | 22     | 6           | 3          | se.     | Brice E. Riker.               |
| Dover.....                                  | Morris.....     | 600              | 37                       | 66.6                          | -2.5                       | 90       | 30    | 45      | 23    | 31                        | 3.46   | -1.30                      | 0.78                  | 0                          | 10                             | 4      | 20          | 7          | .....   | William C. Harris.            |
| Layton.....                                 | Sussex.....     | 480              | 20                       | 67.0                          | -1.4                       | 95       | 30    | 45      | 15†   | 36                        | 3.07   | -0.83                      | 1.12                  | 0                          | 9                              | 21     | 4           | 6          | nw.     | A. M. Depue.                  |
| Newton.....                                 | Sussex.....     | 769              | 38                       | 67.8                          | -2.6                       | 92       | 30    | 48      | 22†   | 28                        | 2.56   | -1.86                      | 0.76                  | 0                          | 10                             | 20     | 6           | 5          | sw.     | Irving G. Kern.               |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....      | .....   | Mrs. D. Wilson Smith.         |
| Sussex.....                                 | Sussex.....     | 442              | 27                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....      | .....   | Rev. W. August George.        |
| Means and extremes.....                     |                 |                  |                          | 66.9                          | -2.5                       | 95       | 30    | 38      | 23    | 40                        | 3.21   | -1.24                      | 1.85                  | 0                          | 8                              | 19     | 7           | 5          | sw.     |                               |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |            |         |                               |
| Bergen Point.....                           | Hudson.....     | 37               | 24                       | 70.6                          | -1.6                       | 89       | 30    | 55      | 22†   | 26                        | 4.08   | -0.98                      | 1.55                  | 0                          | 7                              | 7      | 21          | 3          | sw.     | William H. Mitchell.          |
| Boonton.....                                | Morris.....     | 400              | 31                       | 67.6                          | -3.2                       | 92       | 30    | 43      | 23    | 38                        | 3.65   | -1.43                      | 1.75                  | 0                          | 8                              | 21     | 3           | 7          | ne.     | John Kline.                   |
| Chatham.....                                | Morris.....     | 185              | 17                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.05   | +0.64                      | 1.89                  | 0                          | 9                              | 23     | 4           | 4          | .....   | Paul Molitor, Sr.             |
| Elizabeth.....                              | Union.....      | 45               | 42                       | 70.8                          | -2.6                       | 97       | 30    | 48      | 22    | 34                        | 3.89   | -0.40                      | 1.90                  | 0                          | 9                              | 17     | 11          | 3          | se.     | L. B. Bonnett.                |
| Flemington.....                             | Hunterdon.....  | 140              | 35                       | 70.4                          | -2.1                       | 96       | 30    | 48      | 27    | 34                        | 3.28   | -1.43                      | 1.09                  | 0                          | 6                              | 21     | 6           | 4          | w.      | Hiram E. Deats.               |
| Highwood.....                               | Bergen.....     | 90               | 33                       | 67.6                          | -3.2                       | 90       | 30    | 47      | 23    | 30                        | 3.89   | -0.86                      | 1.99                  | 0                          | 6                              | 16     | 8           | 7          | sw.     | Charles J. Bates.             |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 72.4                          | -1.7                       | 93       | 30    | 57      | 27    | 25                        | 4.36   | -0.17                      | 1.91                  | 0                          | 7                              | 13     | 13          | 5          | s.      | S. K. Pearson, Jr.            |
| Kearny.....                                 | Hudson.....     | 100              | 2                        | 71.8                          | .....                      | 95       | 30    | 53      | 23†   | 31                        | 3.37   | .....                      | 1.30                  | 0                          | 7                              | 20     | 6           | 5          | w.      | Wm. J. Chandler, M. D.        |
| Lambertville.....                           | Hunterdon.....  | 300              | 34                       | 69.1                          | -3.3                       | 91       | 30    | 50      | 26    | 29                        | 6.07   | +1.41                      | 1.40                  | 0                          | 12                             | 18     | 9           | 4          | sw.     | Wm. J. Lauderdale.            |
| Little Falls.....                           | Passaic.....    | 180              | 51                       | 68.5                          | -4.7                       | 95       | 30    | 47      | 22†   | 40                        | 5.02   | +0.62                      | 2.54                  | 0                          | 9                              | 18     | 6           | 7          | w.      | Montclair Water Co.           |
| Newark.....                                 | Essex.....      | 159              | 79                       | 71.6                          | -1.2                       | 94       | 30    | 55      | 27    | 27                        | 4.11   | -0.96                      | 1.80                  | 0                          | 8                              | 15     | 12          | 4          | sw.     | Prof. William Wiener.         |
| New Brunswick.....                          | Middlesex.....  | 110              | 68                       | 70.2                          | -1.8                       | 93       | 31    | 51      | 23    | 29                        | 6.96   | +1.81                      | 2.16                  | 0                          | 11                             | 19     | 8           | 4          | w.      | N. J. Experiment Station.     |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |            |         |                               |
| New Milford.....                            | Bergen.....     | 80               | 50                       | 72.2                          | -1.3                       | 95       | 30    | 50      | 22    | 31                        | 3.98   | -0.75                      | 2.06                  | 0                          | 9                              | 7      | 3           | 21         | nw.     | Hackensack Water Co.          |
| Paterson.....                               | Passaic.....    | 110              | 33                       | 68.6                          | -3.2                       | 94       | 30    | 47      | 27    | 33                        | 4.28   | -0.93                      | 1.67                  | 0                          | 10                             | 13     | 12          | 6          | nw.     | Marion T. Probert.            |
| Plainfield.....                             | Somerset.....   | 70               | 6                        | 68.6                          | .....                      | 92       | 30    | 49      | 22†   | 28                        | 4.34   | .....                      | 2.41                  | 0                          | 6                              | 16     | 9           | 6          | sw.     | E. D. Pearson.                |
| Ridgefield.....                             | Bergen.....     | 74               | 38                       | 70.6                          | -1.8                       | 94       | 30    | 50      | 24    | 31                        | 3.46   | -1.38                      | 1.68                  | 0                          | 8                              | 21     | 5           | 5          | sw.     | George P. Kirsteu.            |
| Somerville.....                             | Essex.....      | 200              | 51                       | 69.6                          | -1.3                       | 90       | 30    | 52      | 23    | 30                        | 4.54   | -0.54                      | 1.80                  | 0                          | 6                              | 20     | 5           | 6          | w.      | Kenneth Bauer.                |
| South Orange.....                           | Bergen.....     | 365              | 51                       | 70.9                          | -1.3                       | 91       | 30    | 58      | 15    | 21                        | 3.87   | -0.66                      | 1.63                  | 0                          | 7                              | 10     | 13          | 8          | s.      | Wm. H. Meeder.                |
| Woodcliff Lake.....                         | Bergen.....     | 365              | 51                       | 70.9                          | -1.3                       | 91       | 30    | 58      | 15    | 21                        | 3.87   | -0.66                      | 1.63                  | 0                          | 7                              | 10     | 13          | 8          | s.      | Hackensack Water Co.          |
| New York, N. Y.....                         |                 |                  |                          | 70.0                          | -2.6                       | 97       | 30    | 43      | 23    | 40                        | 4.37   | -0.36                      | 2.54                  | 0                          | 8                              | 17     | 8           | 6          | sw.     | U. S. Weather Bureau.         |
| Means and extremes.....                     |                 |                  |                          | 70.0                          | -2.6                       | 97       | 30    | 43      | 23    | 40                        | 4.37   | -0.36                      | 2.54                  | 0                          | 8                              | 17     | 8           | 6          | sw.     |                               |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |            |         |                               |
| Bridgeton.....                              | Cumberland..... | 30               | 40                       | 72.4                          | -2.6                       | 96       | 31    | 52      | 4†    | 30                        | 2.96   | -1.41                      | 1.10                  | 0                          | 9                              | 25     | 1           | 5          | ne.     | Henry A. Jorden.              |
| Burlington.....                             | Burlington..... | 12               | 58                       | 72.1                          | -2.1                       | 96       | 30    | 53      | 25    | 28                        | 7.48   | +1.97                      | 4.11                  | 0                          | 12                             | 26     | 2           | 3          | w.      | D. S. B. McCoy.               |
| Camp Dix.....                               | Burlington..... | 127              | 3                        | 69.4                          | .....                      | 92       | 30    | 47      | 27    | 31                        | 3.73   | .....                      | 0.92                  | 0                          | 11                             | 6      | 7           | 18         | w.      | U. S. Army.                   |
| Clayton.....                                | Gloucester..... | 130              | 28                       | 70.2                          | -2.9                       | 92       | 30†   | 49      | 16†   | 30                        | 5.17   | +0.25                      | 1.22                  | 0                          | 10                             | 20     | 2           | 9          | w.      | Marvin E. Porch.              |
| Hammonton.....                              | Atlantic.....   | 103              | 20                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.93   | +0.95                      | 1.26                  | 0                          | 11                             | 21     | 5           | 5          | s.      | Charles M. Phillips.          |
| Hightstown.....                             | Mercer.....     | 120              | 29                       | 69.2                          | -3.1                       | 93       | 30    | 47      | 23†   | 31                        | 6.70   | +2.12                      | 2.67                  | 0                          | 11                             | 24     | 2           | 5          | sw.     | E. H. Savge, Jr.              |
| Imlaystown.....                             | Monmouth.....   | 115              | 33                       | 69.4                          | -3.4                       | 94       | 30    | 47      | 23    | 33                        | 5.58   | +0.81                      | 2.12                  | 0                          | 10                             | 22     | 4           | 5          | w.      | Wm. R. Hendrickson.           |
| Indian Mills.....                           | Burlington..... | 76               | 32                       | 68.8                          | -3.8                       | 93       | 30    | 45      | 23    | 36                        | 4.16   | -1.77                      | 1.14                  | 0                          | 10                             | 16     | 9           | 6          | nw.     | James M. Armstrong.           |
| Lakewood.....                               | Ocean.....      | 54               | 17                       | 68.9                          | -2.2                       | 92       | 30    | 47      | 23    | 31                        | 3.49   | -2.56                      | 0.96                  | 0                          | 10                             | 20     | 4           | 7          | w.      | R. W. Holman.                 |
| Moorestown.....                             | Burlington..... | 75               | 58                       | 70.8                          | -1.8                       | 93       | 30†   | 51      | 23    | 31                        | 5.42   | +0.53                      | 2.08                  | 0                          | 11                             | 15     | 10          | 6          | w.      | Stokes Seed Farms Co.         |
| Northfield.....                             | Atlantic.....   | 25               | 14                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.99   | +0.36                      | 0.95                  | 0                          | 10                             | 17     | 10          | 4          | sw.     | William L. Flick.             |
| Pleasantville.....                          | Atlantic.....   | 26               | 23                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.42   | -0.51                      | 1.13                  | 0                          | 8                              | 22     | 3           | 6          | .....   | Lincoln Van Gilder.           |
| Trenton.....                                | Mercer.....     | 190              | 49                       | 70.2                          | -2.8                       | 92       | 30    | 54      | 27    | 25                        | 8.01   | +2.64                      | 5.30                  | 0                          | 10                             | 10     | 11          | 10         | w.      | U. S. Weather Bureau.         |
| Tuckerton.....                              | Ocean.....      | 23               | 28                       | 71.4                          | -1.3                       | 94       | 30    | 48      | 23    | 34                        | 4.36   | -1.18                      | 1.56                  | 0                          | 10                             | 17     | 10          | 4          | sw.     | Frank R. Austin.              |
| Vineland.....                               | Cumberland..... | 109              | 52                       | 72.5                          | -1.2                       | 96       | 31    | 51      | 23    | 34                        | 4.17   | -0.64                      | 1.12                  | 0                          | 10                             | 22     | 3           | 6          | s.      | H. C. Hines.                  |
| Woodbine.....                               | Cape May.....   | 43               | 28                       | 72.7                          | -1.1                       | 94       | 30    | 58      | 27    | 24                        | 6.01   | +1.40                      | 3.75                  | 0                          | 9                              | 8      | 14          | 9          | s.      | W. I. Zechman.                |
| Philadelphia, Pa.....                       |                 | 117              | 51                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....      | .....   | U. S. Weather Bureau.         |
| Means and extremes.....                     |                 |                  |                          | 70.4                          | -2.5                       | 96       | 30†   | 45      | 23    | 36                        | 5.01   | +0.16                      | 5.30                  | 0                          | 10                             | 19     | 5           | 7          | w.      |                               |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |            |         |                               |
| Asbury Park.....                            | Monmouth.....   | 22               | 32                       | 69.8                          | -2.0                       | 90       | 30    | 53      | 24    | 23                        | 3.13   | -1.93                      | 0.95                  | 0                          | 7                              | 17     | 11          | 3          | se.     | Information Bureau.           |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 70.9                          | -1.7                       | 90       | 31    | 56      | 23    | 20                        | 4.56   | +0.26                      | 1.74                  | 0                          | 11                             | 17     | 7           | 7          | sw.     | U. S. Weather Bureau.         |
| Cape May City.....                          | Cape May.....   | 17               | 37                       | 71.8                          | -1.6                       | 94       | 31    | 56      | 22    | 22                        | 2.98   | -1.28                      | 1.14                  | 0                          | 8                              | 18     | 6           | 7          | sw.     | U. S. Weather Bureau.         |
| Long Branch.....                            | Monmouth.....   | 25               | 14                       | 69.8                          | -1.2                       | 94       | 30    | 53      | 23    | 24                        | 2.35   | -3.78                      | 0.87                  | 0                          | 8                              | 18     | 9           | 4          | nw.     | William D. Martin, Jr.        |
| Sandy Hook.....                             | Monmouth.....   | 22               | 23                       | 71.3                          | -1.5                       | 92       | 30    | 60      | 27    | 22                        | 4.63   | +0.09                      | 1.51                  | 0                          | 8                              | 11     | 14          | 6          | sw.     | U. S. Weather Bureau.         |
| Means and extremes.....                     |                 |                  |                          | 70.7                          | -1.6                       | 91       | 30†   | 53      | 23†   | 24                        | 3.53   | -1.33                      | 1.74                  | 0                          | 8                              | 16     | 10          | 5          | sw.     |                               |
| For the State.....                          |                 |                  |                          | 69.8                          | -2.3                       | 97       | 30    | 38      | 23    | 40                        | 4.32   | -0.45                      | 5.30                  | 0                          | 9                              | 18     | 7           | 6          | sw.     |                               |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, \*, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for August, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      | Total. |      |      |
|--------------------------------------------|-----------------|---------------|------|------|-----|----|-----|------|------|---|----|----|------|------|------|-----|-----|-----|----|----|-----|----|-----|----|----|----|----|----|----|-----|------|------|--------|------|------|
|                                            |                 | 1             | 2    | 3    | 4   | 5  | 6   | 7    | 8    | 9 | 10 | 11 | 12   | 13   | 14   | 15  | 16  | 17  | 18 | 19 | 20  | 21 | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29  | 30   | 31   |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| Belvidere.....                             | Delaware.....   |               | .84  | .92  |     |    |     | .68  | *    |   |    |    | 1.30 |      | .59  |     | .09 |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 4.42   |      |      |
| Charlotteburg.....                         | Passaic.....    |               | *    | 1.26 |     |    |     | .53  | 1.85 |   |    |    | T.   |      | .24  |     | *   | .35 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 3.70   |      |      |
| Culvers Lake.....                          | Delaware.....   |               | .70  | .41  |     |    | T.  | .01  | .11  |   |    |    | .22  |      | .50  |     | .09 | .01 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 2.05   |      |      |
| Dover.....                                 | Passaic.....    |               | *    | 1.58 |     |    | .25 | .78  |      |   |    |    | *    | .04  | .45  |     | *   | .35 |    |    |     |    |     |    |    |    |    |    |    |     |      | T.   | 3.46   |      |      |
| Layton.....                                | Delaware.....   | 1.01          | .30  |      |     |    | .02 | T    | 1.12 |   |    |    | .26  |      | .20  |     | .10 | .05 |    |    |     |    |     |    |    |    |    |    |    |     |      | .01  | 3.07   |      |      |
| Newton.....                                | Delaware.....   | .76           | .58  | .02  |     |    | T.  | .53  | .22  |   |    |    | .03  | .07  | .28  |     | .03 | .04 |    |    |     |    |     |    |    |    |    |    |    |     | T.   | 2.56 |        |      |      |
| Phillipsburg.....                          | do.....         |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| Sussex.....                                | Hudson.....     |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| Bergen Point.....                          | Coast.....      |               | .77  | .59  |     |    |     | .35  | 1.55 |   |    |    |      |      | .21  |     | .21 | .40 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 4.08   |      |      |
| Boonton.....                               | Passaic.....    |               | .03  | 1.08 | .24 | T. | T.  | .28  | 1.47 |   |    |    | .03  |      | .12  |     | .40 | T.  |    |    |     |    |     |    |    |    |    |    |    |     |      | T.   | 3.65   |      |      |
| Chatham.....                               | do.....         | .01           | .03  | 1.17 | .22 |    |     | .53  | 1.89 |   |    |    | .28  |      | .61  |     | .31 |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 5.05   |      |      |
| Elizabeth.....                             | Coast.....      |               | .72  | .72  | .02 |    | .06 | .03  | 1.90 |   |    |    |      | .09  | T.   |     | .12 | .23 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 3.89   |      |      |
| Flemington.....                            | Raritan.....    |               | .68  | 1.06 |     |    | .09 | T    | 1.09 |   |    |    | T.   |      |      |     | .11 | .25 |    |    |     |    |     |    |    |    |    |    |    |     | T.   |      | 3.28   |      |      |
| Highwood.....                              | Hackensack..... |               | .69  | .51  |     |    | T.  | 1.27 | .72  |   |    |    | T.   | T.   | .43  |     | .13 | .14 |    |    |     |    |     |    |    |    |    |    |    |     | T.   |      | 3.89   |      |      |
| Jersey City.....                           | Coast.....      |               | .73  | .62  |     |    | T.  | .46  | 1.45 |   |    |    |      |      | .68  |     | .12 | .30 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 4.36   |      |      |
| Kearny.....                                | Coast.....      |               | .75  | .72  |     |    | T.  | *    | 1.30 |   |    |    | T.   |      | .35  |     | *   | .25 |    |    |     |    |     |    |    |    |    |    |    |     | T.   |      | 3.37   |      |      |
| Lambertville.....                          | Delaware.....   |               | .68  | 1.02 | .04 |    | .03 | .73  | 1.40 |   |    |    | T.   |      | 1.03 |     | .62 | .17 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 6.07   |      |      |
| Little Falls.....                          | Passaic.....    | *             | .10  | 1.09 | .20 |    |     | .18  | 2.36 |   |    |    | .02  |      | .79  |     | .28 |     |    |    |     |    | .02 |    |    |    |    |    |    |     |      | .31  | 5.02   |      |      |
| Newark**.....                              | Coast.....      | .90           | .49  |      |     |    | .05 | 1.80 | .13  |   |    |    |      | .44  |      | .28 | .02 |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 4.11   |      |      |
| New Brunswick.....                         | Raritan.....    | .61           | .96  | .07  |     |    | .07 | .75  | 2.16 |   |    |    | T.   | .10  | 1.33 |     | .39 | .45 |    |    |     |    |     |    |    |    |    |    |    |     | .07  | 6.96 |        |      |      |
| New Milford.....                           | Hackensack..... |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| Paterson.....                              | Passaic.....    |               | .65  | .46  |     |    | .02 | .98  | 1.08 |   |    |    | .02  |      | .47  |     | .08 | .22 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 3.98   |      |      |
| Plainfield.....                            | Raritan.....    |               | .74  | .63  |     |    | .50 | .14  | 1.53 |   |    |    | T.   | .25  | .05  |     | T.  | .40 |    |    |     |    |     |    |    |    |    |    |    |     | .02  | 4.28 |        |      |      |
| Ridgefield**.....                          | Hackensack..... |               | .75  | .65  |     |    | T.  | 1.31 | 1.10 |   |    |    | T.   |      | .24  |     | .29 |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 4.34   |      |      |
| Somerville.....                            | Raritan.....    |               | .29  | .79  | .02 |    | .21 | .05  | 1.63 |   |    |    | T.   |      | .02  |     | .45 |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 3.46   |      |      |
| South Orange.....                          | Rahway.....     |               | 1.40 | .30  |     |    |     | 1.30 | .50  |   |    |    |      |      | .74  |     | .30 | T.  |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 4.54   |      |      |
| Woodcliff Lake.....                        | Hackensack..... |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| New York, N. Y***                          | Coast.....      |               | .73  | .55  |     |    | T.  | 1.42 | .21  |   |    |    | T.   |      | .48  |     | .13 | .35 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 3.87   |      |      |
| <i>The Southern Interior.</i>              |                 |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| Bridgeton.....                             | Coast.....      |               | 1.10 | .65  |     |    |     | .22  |      |   |    |    | .05  |      | .22  |     | .22 | .17 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 2.96   |      |      |
| Burlington.....                            | Delaware.....   | .03           | .48  | .73  | .04 |    | .29 | *    | 4.11 |   |    |    |      | 1.25 | .07  | .12 | .31 |     |    |    |     |    |     |    |    |    |    |    |    | .25 |      | T.   | 7.48   |      |      |
| Camp Dix.....                              | Delaware.....   | .15           |      | .86  |     |    | .04 | .92  |      |   |    |    | T.   |      | .72  |     | .75 | .01 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 3.73   |      |      |
| Clayton.....                               | Maurice.....    |               | 1.22 | 1.21 | .04 |    |     |      |      |   |    |    | T.   |      | .22  | .02 | .12 | .63 | T. | T. | .83 |    |     |    |    |    |    |    |    |     | .03  | .11  | 5.17   |      |      |
| Farmington.....                            | Mullica.....    |               | 1.26 | 1.12 | .05 |    |     | .06  |      |   |    |    | T.   |      | .01  | .06 | .08 | .32 |    |    |     |    |     |    |    |    |    |    |    |     | .84  | .04  | 4.93   |      |      |
| Hightstown.....                            | Raritan.....    |               | .59  | .91  | .02 |    | .18 | 1.02 | 2.67 |   |    |    |      | .22  | .10  |     | .16 | .45 |    |    |     |    |     |    |    |    |    |    |    |     | 1.15 | .38  | 6.70   |      |      |
| Maytown.....                               | Delaware.....   |               | .56  | .95  | .03 |    | .05 | .21  | .12  |   |    |    |      |      | .62  | .16 | .13 | .40 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | .56    | 5.58 |      |
| Indian Mills.....                          | Mullica.....    |               | 1.14 | .83  |     |    | .09 | .16  |      |   |    |    |      | .05  | .10  |     | T.  | .65 |    |    |     |    |     |    |    |    |    |    |    |     |      | .39  | 4.16   |      |      |
| Lakewood.....                              | Metedeconk..... |               | .46  | .96  | .04 |    |     | .55  |      |   |    |    |      | .42  | .10  |     | .20 | .45 |    |    |     |    |     |    |    |    |    |    |    |     | .01  | .28  | 3.49   |      |      |
| Loonstown.....                             | Delaware.....   |               | .55  | .97  | .04 |    |     | *    | 2.08 |   |    |    |      | .36  | .04  |     | .07 | .62 |    |    |     |    |     |    |    |    |    |    |    |     |      | .06  | .01    | 5.42 |      |
| Northfield.....                            | Coast.....      |               | .95  | .93  |     |    |     | .04  |      |   |    |    | .04  | .18  | .01  |     | .14 |     |    |    |     |    |     |    |    |    |    |    |    |     |      | .48  | .95    | 3.99 |      |
| Pleasantville.....                         | Coast.....      |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| Princeton***.....                          | Delaware.....   |               | .46  | .91  |     |    | .12 | 5.18 | .12  |   |    |    | T.   |      | .36  |     | .22 | .57 |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        | 8.01 |      |
| Rockertown.....                            | Coast.....      | 1.56          | .90  |      |     |    |     | .13  |      |   |    |    | T.   | .31  | .10  |     | .35 | T.  |    |    |     |    |     |    |    |    |    |    |    |     |      | .06  | 4.36   |      |      |
| Shelton.....                               | Maurice.....    | 1.12          | .90  |      |     |    |     | .30  |      |   |    |    | T.   | .04  | .15  |     | .04 | .34 |    |    |     |    |     |    |    |    |    |    |    |     | .28  | .04  | .38    | 4.17 |      |
| Woodbine.....                              | Coast.....      |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      | .85  |        |      |      |
| Philadelphia, Pa.....                      | Delaware.....   |               | .47  | .83  |     |    |     | 3.70 | .05  |   |    |    | .03  |      | .34  |     | .17 | .29 |    |    |     |    |     |    |    |    |    |    |    |     |      | T.   | .04    | T.   | 6.01 |
| <i>The Sea Coast.</i>                      |                 |               |      |      |     |    |     |      |      |   |    |    |      |      |      |     |     |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        |      |      |
| Asbury Park.....                           | Coast.....      |               | .95  | .33  |     |    | .02 | .66  |      |   |    |    | T.   | T.   | .50  |     | .64 |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      |        | 3.13 |      |
| Atlantic City***.....                      | do.....         | 1.01          | .88  |      |     |    | T.  | .01  |      |   |    |    | T.   | .03  | .41  |     | .22 |     |    |    |     |    |     |    |    |    |    |    |    |     | T.   | T.   | .03    | 4.56 |      |
| Bay May City.....                          | do.....         | 1.14          | .42  | .01  |     |    |     |      |      |   |    |    |      | .10  | .87  |     | .09 |     |    |    |     |    |     |    |    |    |    |    |    |     |      |      | 1.09   | 2.98 |      |
| Long Branch**.....                         | do.....         | .20           | .40  |      |     |    |     | .77  | .10  |   |    |    |      | .29  |      |     | .10 | .33 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | .16    | 2.35 |      |
| Long Branch***.....                        | do.....         | .47           | .79  |      |     |    |     | 1.24 | .27  |   |    |    |      |      | .92  |     | .06 | .77 |    |    |     |    |     |    |    |    |    |    |    |     |      |      | .11    | 4.63 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.  
\*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight.  
† Separate dates of falls not recorded.  
‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.  
§ Incomplete or missing.  
\* Precipitation included in the next following measurement.  
\*\*Precipitation for 24-hour period from midnight to midnight.  
T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.09         | 30.27    | 5     | 29.71   | 13    | 7                | 19              | ne.        | 26        | 77                                         | 76                                         | 70                                  |
| Cape May City.....    | 30.12         | 30.29    | 27    | 29.78   | 18    | 7                | 29              | ne.        | 26        | 78                                         | 85                                         | .....                               |
| Long Branch.....      | .....         | .....    | ..... | .....   | ..... | .....            | 42              | s.         | 17        | .....                                      | .....                                      | .....                               |
| Newark.....           | .....         | .....    | ..... | .....   | ..... | .....            | 23              | w.         | 7         | 69*                                        | 66†                                        | 65                                  |
| New York, N. Y.....   | 30.08         | 30.32    | 27    | 29.66   | 18    | 13               | 54              | n.w.       | 14        | 73                                         | 69                                         | 67                                  |
| Philadelphia, Pa..... | 30.09         | 30.32    | 28    | 29.71   | 18    | 8                | 23              | n.         | 21        | 79                                         | 72                                         | 63                                  |
| Ridgefield.....       | 30.08         | 30.33    | 27    | 29.65   | 18    | .....            | .....           | .....      | .....     | .....                                      | .....                                      | .....                               |
| Shelton Hook.....     | 30.08         | 30.32    | 27    | 29.67   | 18    | 12               | 40              | n.w.       | 14        | 79                                         | 77                                         | 70                                  |
| Princeton.....        | 30.08         | 30.30    | 28    | 29.68   | 18    | 9                | 40              | s.         | 7         | 78                                         | 69                                         | 65                                  |

§ Two directions and dates      \* 7 a. m.      † 9 p. m.



### Stations.

\* , b , c , etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.  
e preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charge



OCT 27 1921

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist,

VOL. XXVI. TRENTON, N. J., SEPTEMBER, 1921. No. 9.

### GENERAL SUMMARY.

The outstanding features of weather conditions in New Jersey during the month of September 1921 were the days of consecutive excess of warmth and the deficiency of rain. There were but two days subnormal in temperature, while many were from ten to twelve or more degrees warmer than normal, so that the month, as a whole, throughout the State, averaged the warmest on record since compilations were first made in 1885. In fact, the month was warmer than the preceding month of August.

The rainfall was fairly regular of occurrence but amounts were deficient, except over Sussex County where a slight excess of water fell. The southern half of the State, except in the southern portion of Gloucester County, was notably dry, and the agricultural situation became somewhat adversely affected.

No frosts were reported in any portion of the State, which is another unusual feature for September, particularly in the northern highlands.

There was a severe storm in the northern counties on the 3d, and on the 30th a short storm of marked force swept over the State doing considerable damage to insecure objects.

Storm warnings were displayed along shore on the 21st, 25th, and 30th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 70.2°, which was 4.5° above the normal. The highest temperature was 99° at Bridgeton on the 2d, and the lowest 36° at Charlotteburg on the 27th. The highest monthly mean temperature was 73.4° at Vineland, and the lowest, 65.7° at Charlotteburg. The greatest daily range of temperature was 41° at Charlotteburg on the 9th.

The temperature departure from the normal for the year 1921 to date, by sections, is: The Highlands, +3.5°; Red Sandstone Plain, +3.5°; Southern Interior, +3.5°; Sea Coast, +3.0°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 43 stations, was 2.35 inches, which was 1.26 inches below the normal. The greatest monthly rainfall was 5.04 inches at Sussex, and the least, 0.80 inch at Cape May City. The greatest amount of rain in any 24 consecutive hours was 2.01 inches at Newton on the 7th. The mean of the number of days on which 0.01 inch or more of rain fell was 8, or normal.

The precipitation departure from the normal for the year 1921 to date, by sections, is: The Highlands, -2.90 inches; Red Sandstone Plain, -4.14 inches; Southern Interior, -5.29 inches; Sea Coast, -6.72 inches.

### WIND.

The prevailing wind direction was from the southwest, with an approximate velocity of 9 miles per hour, which was about

the normal. The highest velocity, sustained for five consecutive minutes was 63 miles per hour from the northwest on the 30th at Long Branch. There were high winds also on the 3d and 21st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was 1 more than the normal; partly cloudy, 8, or 1 less than the normal; cloudy, 7, or normal. The approximate percentage of possible sunshine was 61, which was probably somewhat below the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.04 inches, which was 0.03 inch below the normal. The highest reading was 30.31 inches at Sandy Hook on the 20th, and the lowest, 29.60 inches at Ridgefield and Trenton on the 30th.

The mean stage of the Delaware River at Phillipsburg was 0.5 foot, and the highest, 1.5 feet on the 23d. At Trenton the mean stage was 0.4 foot, which was 0.7 foot below the normal. The highest stage, 1.2 feet, occurred on the 25th.

Thunderstorms occurred in some portions of the State on the 2d, 3d, 4th, 6th, 7th, 11th, 12th, 17th, 21st, 22d, 25th, 27th, 28th, 29th, and 30th. Dense fog occurred on the 1st, 2d, 12th, 13th, 27th, and 29th. A solar halo was observed on the 14th, and lunar halos on the 19th and 29th. The aurora was noted on the 28th and 29th. Hail did some damage at Dover on the 3d. No frost formed in the State during the month.

### COMPARATIVE DATA FOR SEPTEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 64.2         | 93       | 38      | 0.83           | 1.69      | 0.25   | .....        | .....          | .....   | .....                  |
| 1886..... | 66.9         | 95       | 36      | 1.13           | 1.76      | 0.86   | .....        | .....          | .....   | .....                  |
| 1887..... | 61.6         | 90       | 30      | 3.66           | 6.25      | 1.62   | .....        | .....          | .....   | .....                  |
| 1888..... | 63.1         | 84       | 29      | 7.09           | 10.65     | 3.75   | .....        | .....          | .....   | .....                  |
| 1889..... | 64.8         | 90       | 34      | 8.36           | 13.13     | 3.17   | .....        | .....          | .....   | .....                  |
| 1890..... | 64.4         | 91       | 33      | 4.75           | 8.61      | 2.59   | 10           | 10             | 10      | 10                     |
| 1891..... | 68.7         | 95       | 39      | 2.46           | 5.91      | 0.90   | 16           | 9              | 5       | 6                      |
| 1892..... | 64.2         | 90       | 33      | 1.81           | 3.78      | 1.02   | 15           | 11             | 4       | 6                      |
| 1893..... | 62.7         | 90       | 31      | 3.20           | 5.38      | 1.93   | 12           | 10             | 8       | 8                      |
| 1894..... | 68.8         | 97       | 31      | 7.46           | 11.65     | 3.69   | 10           | 10             | 10      | 8                      |
| 1895..... | 69.7         | 109      | 29      | 1.07           | 2.71      | 0.22   | 17           | 10             | 3       | 5                      |
| 1896..... | 65.1         | 95       | 30      | 4.37           | 8.74      | 2.26   | 19           | 7              | 4       | 5                      |
| 1897..... | 65.5         | 99       | 30      | 1.65           | 3.97      | 0.21   | 19           | 7              | 4       | 5                      |
| 1898..... | 68.6         | 100      | 31      | 2.00           | 3.87      | 0.65   | 17           | 8              | 5       | 6                      |
| 1899..... | 64.4         | 93       | 30      | 5.88           | 9.61      | 2.88   | 15           | 9              | 6       | 9                      |
| 1900..... | 69.9         | 98       | 32      | 2.86           | 7.37      | 1.09   | 14           | 10             | 6       | 6                      |
| 1901..... | 66.8         | 94       | 29      | 3.38           | 6.82      | 1.63   | 15           | 9              | 6       | 10                     |
| 1902..... | 64.6         | 93       | 30      | 5.65           | 8.95      | 3.11   | 11           | 7              | 12      | 13                     |
| 1903..... | 65.0         | 92       | 29      | 3.34           | 7.10      | 1.39   | 17           | 8              | 5       | 7                      |
| 1904..... | 64.8         | 93       | 29      | 4.79           | 10.08     | 0.89   | 14           | 10             | 6       | 7                      |
| 1905..... | 65.4         | 90       | 28      | 5.23           | 9.18      | 2.87   | 16           | 7              | 7       | 8                      |
| 1906..... | 68.9         | 94       | 33      | 2.19           | 4.66      | 0.75   | 15           | 9              | 6       | 7                      |
| 1907..... | 67.1         | 92       | 31      | 8.08           | 12.95     | 3.55   | 10           | 8              | 12      | 14                     |
| 1908..... | 65.7         | 90       | 29      | 2.09           | 4.13      | 0.95   | 11           | 10             | 9       | 8                      |
| 1909..... | 64.5         | 89       | 30      | 3.30           | 4.58      | 2.08   | 11           | 10             | 9       | 8                      |
| 1910..... | 67.3         | 97       | 32      | 2.39           | 3.97      | 1.01   | 12           | 10             | 8       | 6                      |
| 1911..... | 66.4         | 90       | 30      | 2.88           | 5.33      | 1.08   | 10           | 12             | 8       | 9                      |
| 1912..... | 65.9         | 87       | 28      | 4.47           | 6.76      | 2.68   | 12           | 7              | 11      | 10                     |
| 1913..... | 64.4         | 96       | 27      | 3.87           | 6.55      | 1.56   | 13           | 8              | 9       | 9                      |
| 1914..... | 64.0         | 99       | 24      | 0.37           | 1.64      | 0.14   | 21           | 6              | 3       | 3                      |
| 1915..... | 68.5         | 97       | 30      | 2.08           | 4.46      | 0.55   | 17           | 9              | 4       | 5                      |
| 1916..... | 65.2         | 98       | 31      | 2.84           | 5.29      | 1.29   | 20           | 7              | 3       | 6                      |
| 1917..... | 61.5         | 87       | 25      | 2.74           | 6.13      | 0.47   | 16           | 7              | 7       | 6                      |
| 1918..... | 62.2         | 90       | 29      | 3.84           | 6.00      | 2.66   | 14           | 8              | 8       | 9                      |
| 1919..... | 65.8         | 96       | 30      | 3.26           | 6.28      | 1.04   | 16           | 6              | 8       | 8                      |
| 1920..... | 66.8         | 90       | 30      | 3.87           | 8.53      | 1.67   | 17           | 8              | 5       | 7                      |
| 1921..... | 70.2         | 99       | 36      | 2.35           | 5.04      | 0.80   | 15           | 8              | 7       | 8                      |



## Climatological Data for September, 1921.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 30                       | 68.3                          | +3.6                       | 91       | 2     | 44      | 27    | 34                        | 2.98   | -0.79                      | 0.76                  | 0                          | 8                              | 19     | 3           | 8                             | se.        | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 29                       | 65.7 <sup>a</sup>             | +3.8                       | 91       | 2     | 36      | 27    | 41                        | 3.87   | -0.55                      | 1.73                  | 0                          | 7                              | .....  | .....       | .....                         | .....      | George S. Briggs.         |
| Culvers Lake††.....                         | Sussex.....     | 848              | 20                       | .....                         | .....                      | .....    | ..... | 39      | 27    | .....                     | 4.06   | -0.48                      | 1.28                  | 0                          | 12                             | 20     | 5           | 7                             | se.        | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 37                       | 66.8                          | +4.6                       | 92       | 2     | 43      | 27    | 30                        | 4.06   | -0.03                      | 1.88                  | 0                          | 10                             | 7      | 16          | 7                             | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 20                       | 67.8                          | +5.5                       | 98       | 2     | 39      | 27    | 38                        | 4.22   | +0.30                      | 1.04                  | 0                          | 11                             | 19     | 1           | 10                            | s.         | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 38                       | 68.3                          | +4.8                       | 94       | 2     | 45      | 27    | 30                        | 4.21   | +0.40                      | 2.01                  | 0                          | 9                              | 17     | 7           | 6                             | sw.        | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Mrs. D. Wilson Smith.     |
| Sussex.....                                 | Sussex.....     | 442              | 27                       | 69.5 <sup>b</sup>             | +5.3                       | 97       | 2     | .....   | ..... | 38 <sup>a</sup>           | 5.04   | +1.14                      | 1.92                  | 0                          | 8                              | .....  | .....       | .....                         | .....      | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 67.7                          | +4.6                       | 98       | 2     | 36      | 27    | 41                        | 4.06   | 0.00                       | 2.01                  | 0                          | 9                              | 16     | 7           | 7                             | sw.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 24                       | 70.6                          | +4.2                       | 91       | 2     | 53      | 27    | 26                        | 2.52   | -1.01                      | 1.45                  | 0                          | 5                              | 10     | 16          | 4                             | sw.        | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 31                       | 67.8                          | +6.0                       | 93       | 2†    | 41      | 27    | 38                        | 3.56   | -0.57                      | 0.82                  | 0                          | 9                              | 19     | 5           | 6                             | ne.        | John Klue.                |
| Chatham.....                                | Morris.....     | 185              | 17                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.34   | -2.95                      | 0.74                  | 0                          | 7                              | 19     | 8           | 3                             | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 42                       | 71.0                          | +4.3                       | 97       | 2     | 46      | 27    | 35                        | 1.84   | -1.93                      | 0.73                  | 0                          | 9                              | 16     | 10          | 4                             | w.         | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 35                       | 70.7                          | +4.4                       | 96       | 2     | 46      | 27    | 33                        | 2.28   | -1.62                      | 0.91                  | 0                          | 10                             | 17     | 5           | 8                             | sw.        | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 33                       | 67.7                          | +4.0                       | 92       | 2     | 44      | 27    | 31                        | 2.29   | -1.63                      | 0.68                  | 0                          | 10                             | 14     | 10          | 6                             | s.         | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 72.4                          | +5.2                       | 96       | 3     | 54      | 27    | 29                        | 2.50   | -0.85                      | 1.20                  | 0                          | 9                              | 10     | 13          | 7                             | s.         | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 2                        | 72.1                          | .....                      | 95       | 2†    | 50      | 27    | 31                        | 2.18   | .....                      | 1.00                  | 0                          | 6                              | 16     | 8           | 6                             | s.         | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 300              | 34                       | 69.3                          | +3.5                       | 93       | 2     | 42      | 27    | 28                        | 1.64   | -2.25                      | 0.70                  | 0                          | 9                              | 14     | 8           | 8                             | sw.        | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 18                       | 69.7                          | +5.6                       | 96       | 2†    | 45      | 24†   | 35                        | 1.93   | -1.65                      | 0.77                  | 0                          | 9                              | 15     | 8           | 7                             | w.         | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 79                       | 71.6                          | +5.2                       | 97       | 3     | 52      | 27    | 25                        | 3.50   | -0.26                      | 1.40                  | 0                          | 10                             | 12     | 13          | 5                             | sw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 68                       | 70.8                          | +5.0                       | 93       | 2†    | 46      | 27    | 30                        | 2.27   | -1.33                      | 0.95                  | 0                          | 10                             | 20     | 5           | 5                             | w.         | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 80               | 50                       | 71.2                          | +5.0                       | 97       | 2     | 49      | 27    | 32                        | 1.66   | -2.47                      | 0.65                  | 0                          | 8                              | 7      | .....       | 22                            | sw.        | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 110              | 33                       | 68.8                          | +3.2                       | 95       | 2     | 45      | 27    | 32                        | 2.00   | -2.37                      | 0.73                  | 0                          | 9                              | 11     | 14          | 5                             | sw.        | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 70               | 6                        | 68.5                          | .....                      | 93       | 2     | 46      | 27    | 32                        | 2.85   | .....                      | 0.94                  | 0                          | 10                             | 16     | 8           | 6                             | s.         | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 70               | 6                        | 68.5                          | .....                      | 93       | 2     | 46      | 27    | 32                        | 2.85   | .....                      | 0.94                  | 0                          | 10                             | 16     | 8           | 6                             | s.         | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 38                       | 71.8 <sup>b</sup>             | +5.8                       | 96       | 2     | .....   | ..... | 29 <sup>k</sup>           | 3.45   | -0.20                      | 1.42                  | 0                          | 10                             | 15     | 8           | 7                             | sw.        | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 200              | 51                       | 68.9                          | +4.8                       | 92       | 2     | 48      | 27    | 28                        | 2.18   | -1.63                      | 1.03                  | 0                          | 8                              | 20     | 6           | 4                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake††.....                       | Bergen.....     | 365              | 51                       | 71.0                          | +4.5                       | 91       | 3     | 56      | 19    | 25                        | 2.96   | -0.63                      | 1.55                  | 0                          | 10                             | 9      | 12          | 9                             | s.         | Hackensack Water Co.      |
| New York, N. Y.....                         |                 |                  |                          | 71.0                          | +4.5                       | 91       | 3     | 56      | 19    | 25                        | 2.96   | -0.63                      | 1.55                  | 0                          | 10                             | 9      | 12          | 9                             | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 70.2                          | +4.7                       | 97       | 2†    | 41      | 27    | 38                        | 2.35   | -1.51                      | 1.45                  | 0                          | 9                              | 15     | 8           | 7                             | sw.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton.....                              | Cumberland..... | 30               | 40                       | 73.3                          | +5.1                       | 99       | 2     | 51      | 27    | 30                        | 1.99   | -1.32                      | 0.76                  | 0                          | 6                              | 22     | 1           | 7                             | sw.        | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 35                       | 72.6                          | +5.8                       | 98       | 3     | 49      | 27    | 33                        | 1.80   | -1.69                      | 0.62                  | 0                          | 7                              | 21     | 3           | 6                             | nw.        | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 3                        | 70.2                          | .....                      | 93       | 2     | 44      | 27    | 34                        | 1.89   | .....                      | 0.66                  | 0                          | 8                              | 4      | 2           | 24                            | sw.        | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 28                       | 70.9                          | +4.1                       | 94       | 1     | 47      | 27    | 31                        | 3.01   | -0.43                      | 0.60                  | 0                          | 10                             | 6      | 9           | 15                            | e          | Marvin E. Porch.          |
| Hammonton.....                              | Atlantic.....   | 103              | 20                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.27   | -0.92                      | 0.72                  | 0                          | 8                              | 20     | 6           | 4                             | s.         | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 29                       | 69.2                          | +2.4                       | 94       | 2     | 45      | 27    | 32                        | 1.62   | -1.51                      | 0.68                  | 0                          | 8                              | 20     | 5           | 5                             | nw.        | E. H. Savage, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 33                       | 70.0                          | +3.7                       | 95       | 3     | 44      | 26†   | 34                        | 1.62   | -2.20                      | 0.60                  | 0                          | 8                              | 19     | 5           | 6                             | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 32                       | 70.4                          | +4.3                       | 94       | 2†    | 42      | 27    | 38                        | 1.87   | -2.04                      | 0.57                  | 0                          | 9                              | 14     | 8           | 8                             | s.         | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 17                       | 69.2                          | +4.6                       | 93       | 2     | 42      | 27    | 32                        | 1.59   | -1.20                      | 0.70                  | 0                          | 6                              | 17     | 7           | 6                             | sw.        | R. W. Holman.             |
| Noorestown††.....                           | Burlington..... | 75               | 58                       | 71.9 <sup>b</sup>             | +5.9                       | 94       | 2     | .....   | ..... | 34 <sup>a</sup>           | 2.41   | -1.22                      | 0.64                  | 0                          | 9                              | 14     | 8           | 8                             | s.         | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 14                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.39   | -1.11                      | 0.47                  | 0                          | 9                              | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 23                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.14   | -1.98                      | 0.38                  | 0                          | 7                              | 24     | 0           | 6                             | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 49                       | 70.6                          | +3.7                       | 93       | 2     | 52      | 27    | 29                        | 1.69   | -1.90                      | 0.67                  | 0                          | 7                              | 8      | 10          | 12                            | s.         | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 28                       | 71.7                          | +5.5                       | 95       | 2†    | 45      | 27    | 34                        | 1.86   | -1.20                      | 0.65                  | 0                          | 9                              | 19     | 6           | 5                             | nw.        | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 52                       | 73.4                          | +6.4                       | 96       | 2     | 51      | 27    | 32                        | 2.10   | -1.59                      | 0.70                  | 0                          | 7                              | 15     | 8           | 7                             | sw.        | H. C. Himes.              |
| Woodbine.....                               | Cape May.....   | 43               | 28                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.21   | -1.17                      | 0.99                  | 0                          | 8                              | 9      | 11          | 10                            | s.         | W. I. Zechman.            |
| Philadelphia, Pa.....                       |                 | 117              | 51                       | 72.8                          | +5.4                       | 92       | 3     | 58      | 27    | 26                        | 2.21   | -1.17                      | 0.99                  | 0                          | 8                              | 9      | 11          | 10                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 71.0                          | +4.6                       | 99       | 2     | 42      | 27    | 38                        | 1.89   | -1.47                      | 0.76                  | 0                          | 8                              | 16     | 5           | 9                             | sw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 32                       | 70.4                          | +3.6                       | 95       | 2     | 53      | 27    | 27                        | 1.29   | -1.70                      | 0.65                  | 0                          | 6                              | 15     | 9           | 6                             | se.        | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 71.6                          | +4.0                       | 93       | 3     | 56      | 19    | 24                        | 1.51   | -1.54                      | 0.59                  | 0                          | 5                              | 14     | 8           | 8                             | s.         | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 37                       | 72.9                          | +3.9                       | 93       | 3     | 55      | 24    | 20                        | 0.80   | -2.20                      | 0.46                  | 0                          | 7                              | 11     | 12          | 7                             | s.         | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 14                       | 69.0                          | +3.1                       | 95       | 2     | 49      | 27    | 28                        | 1.86   | -1.20                      | 0.82                  | 0                          | 8                              | 15     | 11          | 4                             | sw.        | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 23                       | 71.4                          | +4.3                       | 91       | 3     | 60      | 19    | 23                        | 1.47   | -2.03                      | 0.68                  | 0                          | 8                              | 11     | 9           | 10                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 71.1                          | +3.8                       | 95       | 2     | 49      | 27    | 28                        | 1.39   | -1.73                      | 0.82                  | 0                          | 7                              | 13     | 10          | 7                             | s.         |                           |
| For the State.....                          |                 |                  |                          | 70.2                          | +4.5                       | 99       | 2     | 36      | 27    | 41                        | 2.35   | -1.26                      | 2.01                  | 0                          | 8                              | 15     | 8           | 7                             | sw.        |                           |

† On other dates also.

‡ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for September, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |      |     |     |     |     |      |      |   |    |      |      |     |    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      | Total. |      |      |
|--------------------------------------------|-----------------|---------------|------|-----|-----|-----|-----|------|------|---|----|------|------|-----|----|----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|------|------|--------|------|------|
|                                            |                 | 1             | 2    | 3   | 4   | 5   | 6   | 7    | 8    | 9 | 10 | 11   | 12   | 13  | 14 | 15 | 16  | 17  | 18  | 19  | 20  | 21   | 22   | 23  | 24  | 25  | 26  | 27  | 28  | 29   | 30   |        | 31   |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |     |     |     |     |      |      |   |    |      |      |     |    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |        |      |      |
| Belvidere.....                             | Delaware.....   |               |      | .27 |     |     |     | .27  |      |   |    |      | .44  |     |    |    | .25 |     |     |     |     | .63  | .76  |     | .24 |     |     |     |     |      | .12  |        | 2.98 |      |
| Charlotteburg.....                         | Passaic.....    |               |      | T.  |     |     |     | .23  |      |   |    |      | 1.73 |     |    |    | .18 |     |     |     |     | *    | 1.59 |     | .09 |     |     |     |     |      | .05  |        | 3.97 |      |
| Culvers Lake.....                          | Delaware.....   |               | .03  | .01 |     |     |     | .03  | 1.28 |   |    | .70  | .20  |     |    |    | .28 |     |     |     |     | .45  | .82  |     | .10 |     | .01 |     |     |      | .15  |        | 4.06 |      |
| Dover.....                                 | Passaic.....    |               | 1.88 |     |     |     |     | .35  |      |   |    | *    | .53  |     |    |    | .16 |     |     |     |     | *    | .87  |     | .15 |     |     | .02 |     | .10  |      |        | 4.06 |      |
| Layton.....                                | Delaware.....   |               |      | .34 |     |     | .04 | 1.04 |      |   |    | .19  | .56  |     |    |    | .36 |     |     |     |     | .48  | .89  |     | .05 |     |     |     | .03 | .24  |      |        | 4.22 |      |
| Newton.....                                | Delaware.....   |               | T.   | .33 |     |     |     | 2.01 |      |   |    | .23  | .26  |     |    |    | .23 |     |     |     |     | .31  | .57  |     | .06 |     |     |     |     | .21  |      |        | 4.21 |      |
| Phillipsburg.....                          | do.....         |               |      |     |     |     |     |      |      |   |    |      |      |     |    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |        |      |      |
| Sussex.....                                | Hudson.....     |               |      | T.  |     |     |     | 1.00 |      |   |    | 1.92 | .42  |     |    |    | .25 |     |     |     |     | .37  | .79  |     | .08 |     |     |     |     |      | .21  |        | 5.04 |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |     |     |     |     |      |      |   |    |      |      |     |    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |        |      |      |
| Bergen Point.....                          | Coast.....      |               |      |     |     |     |     | .26  |      |   |    | T.   | .08  |     |    |    | .25 |     |     |     |     | .48  |      |     | T.  |     | T.  | T.  |     | 1.45 |      |        | 2.52 |      |
| Boonton   .....                            | Passaic.....    | T.            |      | .26 | .82 |     |     | .25  |      |   |    | T.   | .79  | .01 |    |    |     | .13 |     |     |     | T.   | .82  |     |     | T.  |     |     |     | .21  |      |        | 1.34 |      |
| Chatham   .....                            | do.....         | T.            |      | .05 | T.  |     |     | .17  |      |   |    |      | .14  | T.  |    |    |     | .09 |     |     |     | T.   | .74  |     |     |     |     | T.  |     | .11  |      | .27    | 3.56 |      |
| Elizabeth.....                             | Coast.....      |               | T.   | T.  |     |     |     | .08  |      |   |    | .02  | .12  |     |    |    | .25 | T.  |     |     |     | T.   | .73  |     | T.  | .10 |     |     |     | .10  |      | .04    |      | 1.84 |
| Flemingtown.....                           | Raritan.....    |               | T.   | T.  |     |     |     | .41  |      |   |    | .03  | .08  |     |    |    | .12 | .09 | T.  |     |     | .91  | .28  |     | T.  | .10 |     |     |     | .14  |      | .40    |      | 2.28 |
| Highwood.....                              | Hackensack..... |               | .13  | .02 |     |     |     | .13  |      |   |    | T.   | .68  |     |    |    |     | .13 | .01 |     |     | .44  | .35  |     | T.  | .07 |     |     |     |      | .13  |        | .33  | 2.29 |
| Jersey City.....                           | Coast.....      |               | T.   | .09 |     | T.  |     | .20  |      |   |    | .05  | .10  |     |    |    | .13 | T.  |     |     | T.  | .50  | .11  |     | .12 |     |     |     |     |      | .26  |        | 2.50 |      |
| Kearny.....                                | Coast.....      |               |      | .46 |     |     |     | .20  |      |   |    | T.   | .26  |     |    |    | .16 | T.  |     |     |     | *    | 1.00 |     | T.  |     |     | T.  |     |      | .08  |        | 1.64 |      |
| Lambertville.....                          | Delaware.....   |               |      |     |     |     |     | .07  |      |   |    | .06  | .33  |     |    |    | .11 |     |     |     |     | .70  | .16  |     | .03 | .10 |     |     |     |      | .03  |        | 1.93 |      |
| Little Falls   .....                       | Passaic.....    |               | .06  | .06 |     |     |     | .22  |      |   |    |      | .54  |     |    |    | .12 |     |     |     |     | .03  | .77  |     |     | .10 |     |     |     |      | .03  |        | 3.50 |      |
| Newark**.....                              | Coast.....      |               | .28  |     |     |     |     | .43  | .09  |   |    | .10  | .09  |     |    |    | .10 |     |     | .02 | .65 | .07  |      | .43 | .03 |     |     |     |     | 1.40 |      | 2.27   |      |      |
| New Brunswick.....                         | Raritan.....    |               | .95  | .02 |     |     | .13 |      |      |   |    | .03  | .01  |     |    |    | .05 |     |     |     |     | .61  | .18  |     | .01 | .03 |     |     |     |      | .28  |        | 2.27 |      |
| New Milford.....                           | Hackensack..... |               |      |     |     | .16 | .04 |      |      |   |    | .56  | .19  |     |    |    | .11 |     |     |     |     | .70  | .10  |     |     |     |     |     |     | .16  |      | 2.06   |      |      |
| Paterson.....                              | Passaic.....    |               | .22  |     |     |     | .03 |      |      |   |    | T.   | .65  |     |    |    | .10 |     |     |     |     | .21  | .30  |     | .04 |     |     |     |     |      | .05  |        | 1.66 |      |
| Plainfield.....                            | Raritan.....    |               | T.   | T.  |     |     | .20 |      |      |   |    | .07  | .08  |     |    |    | .16 | T.  |     |     |     |      |      |     | T.  | .10 |     |     |     |      | .33  |        | 2.00 |      |
| Ridgefield**.....                          | Hackensack..... |               | .12  | T.  |     | T.  |     | .24  |      |   |    | T.   | .53  |     |    |    | .11 | .01 |     |     | .02 | .73  | .21  |     | .12 | .12 | T.  |     |     |      | .79  |        | 2.85 |      |
| Somerville.....                            | Raritan.....    |               | .24  | T.  |     |     | .59 |      |      |   |    | .06  | .09  |     |    |    | .44 |     |     |     |     | 1.42 |      |     | .03 | .24 |     |     | .06 |      | .28  |        | 3.45 |      |
| South Orange.....                          | Rahway.....     |               | T.   | .10 |     |     | .13 |      |      |   |    | .27  | T.   |     |    |    | .07 |     |     |     |     | 1.03 | .30  |     | .10 |     |     |     |     | .18  |      | 2.18   |      |      |
| Woodcliff Lake.....                        | Hackensack..... |               |      |     |     | .16 | .04 |      |      |   |    | .56  | .19  |     |    |    | .11 |     |     |     |     | .70  | .10  |     |     |     |     |     |     | .16  |      | 2.06   |      |      |
| New York, N. Y***                          | Coast.....      |               | T.   | .06 |     | T.  | .02 | .02  |      |   |    | .38  | .17  |     |    |    | .16 | T.  |     |     | T.  | .56  | T.   |     | .09 |     |     | T.  | .01 |      | 1.55 |        | 1.15 |      |
| <i>The Southern Interior.</i>              |                 |               |      |     |     |     |     |      |      |   |    |      |      |     |    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |        |      |      |
| Bridgeton.....                             | Coast.....      |               |      |     |     |     | .55 |      |      |   |    | *    | .35  |     |    |    |     |     |     |     |     | .76  | .15  |     |     |     |     |     |     | .18  |      | 1.99   |      |      |
| Burlington.....                            | Delaware.....   |               |      |     |     |     | .15 |      |      |   |    | *    | .15  |     |    |    | .11 | T.  |     |     |     | .56  | T.   |     | .21 | T.  |     |     |     | .62  |      | 1.80   |      |      |
| Camp Dix   .....                           | Delaware.....   |               |      |     |     |     | .07 |      |      |   |    | .05  | .29  |     |    |    | .06 |     |     |     |     | .14  | .66  |     | .04 |     |     |     |     | .58  |      | 1.89   |      |      |
| Clayton.....                               | Maurice.....    |               | .05  |     | T.  |     | .44 |      |      |   |    | .36  | .58  |     |    |    | .09 |     |     |     |     | .56  | .18  |     |     |     |     |     |     | .60  |      | 3.01   |      |      |
| Hammononton.....                           | Mullica.....    |               |      | .03 |     |     | .24 |      |      |   |    | .32  | .17  |     |    |    | .12 |     |     |     |     | .39  |      |     | .13 | .02 |     |     |     | .72  | .28  |        | 2.27 |      |
| Hightstown.....                            | Raritan.....    |               |      | T.  |     |     |     |      |      |   |    | T.   | .10  |     |    |    | .07 | .10 | T.  |     |     | .55  | .07  |     | .03 | .02 |     |     |     | .68  |      | 1.62   |      |      |
| Imlaystown.....                            | Delaware.....   |               | .01  |     |     |     |     |      |      |   |    |      | .08  |     |    |    | .07 | .09 |     |     |     | .55  | .12  |     |     | .10 |     |     |     | .60  |      | 1.62   |      |      |
| Indian Mills.....                          | Mullica.....    |               |      | T.  |     |     | .22 |      |      |   |    | .13  | .22  |     |    |    | .15 |     |     |     |     | .48  | .09  |     | .12 |     | T.  | .26 |     | .20  |      | 1.87   |      |      |
| Lakewood.....                              | Metedeconk..... |               | .10  |     | T.  | T.  | .04 |      |      |   |    | .20  |      |     |    |    | .08 |     |     |     |     | .47  |      |     |     | T.  |     |     |     | .70  |      | 1.59   |      |      |
| Moorestown.....                            | Delaware.....   |               |      |     |     | .53 |     |      |      |   |    | .33  | .02  |     |    |    | .02 | .14 |     |     |     | .53  | .16  |     | .04 |     |     |     |     | .64  |      | 2.41   |      |      |
| Northfield.....                            | Coast.....      |               | .22  |     |     | .03 |     | .07  |      |   |    | .02  |      |     |    |    |     |     |     |     |     | .35  | .03  |     |     | T.  |     | .02 | .18 |      | .47  |        | 1.39 |      |
| Pleasantville.....                         | Coast.....      |               | .02  |     | .01 |     | .08 |      |      |   |    | T.   |      |     |    |    | .05 |     |     |     |     | .38  | T.   |     | T.  |     | T.  | .22 |     | .38  |      | 1.14   |      |      |
| Trenton***.....                            | Delaware.....   |               | T    | T.  |     |     | .02 |      |      |   |    | .01  | .28  |     |    |    | .10 | T.  |     | T.  |     | .67  | T.   |     | .01 |     | T.  | T.  | T.  | .60  |      | 1.69   |      |      |
| Tuckerton.....                             | Coast.....      |               |      |     | .03 |     | .04 |      |      |   |    | .02  |      |     |    |    | .19 |     |     |     |     | .47  | .15  |     | .12 |     |     |     |     | .19  |      | 1.86   |      |      |
| Vineland.....                              | Maurice.....    |               |      |     |     | .64 |     |      |      |   |    | .21  | .23  |     |    |    |     |     |     |     |     | .70  | .11  |     |     |     |     |     |     | .11  |      | 2.10   |      |      |
| Woodbine.....                              | Coast.....      |               | .09  | T.  |     |     | .05 |      |      |   |    | .20  | .19  |     |    |    | .24 |     |     |     | T.  | .99  |      |     | .07 |     | T.  |     |     | .38  |      | 2.21   |      |      |
| Philadelphia, Pa...                        | Delaware.....   |               |      |     |     |     |     |      |      |   |    |      |      |     |    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |        |      |      |
| <i>The Sea Coast.</i>                      |                 |               |      |     |     |     |     |      |      |   |    |      |      |     |    |    |     |     |     |     |     |      |      |     |     |     |     |     |     |      |      |        |      |      |
| Asbury Park.....                           | Coast.....      |               |      | .01 | T.  | T.  |     |      |      |   |    | .12  | .11  |     |    |    | .07 | T.  |     |     |     | .33  |      |     |     |     |     |     |     | .65  |      | 1.29   |      |      |
| Atlantic City***.....                      | do.....         |               |      | T.  |     | T.  |     | T.   | .02  |   |    | T.   | T.   |     |    |    | .01 | T.  |     |     |     | .36  |      |     | T.  |     | .53 |     | T.  |      | .59  |        | 1.51 |      |
| Cape May City.....                         | do.....         |               | .02  |     | .03 |     |     |      |      |   |    | T.   | T.   |     |    |    | .05 |     |     |     |     | .16  | .07  |     |     | T.  |     | .01 |     | .46  |      | 0.80   |      |      |
| Long Branch**.....                         | do.....         |               |      | .06 | .76 |     |     |      |      |   |    | .06  | .12  |     |    |    | .04 |     |     |     |     | .19  |      |     | .03 |     |     |     |     | .60  |      | 1.86   |      |      |
| Sandy Hook***.....                         | do.....         |               |      | .01 |     |     | .02 | T.   |      |   |    | .08  | .13  |     |    |    | .05 | T.  |     | T.  |     | .41  |      |     | .09 |     |     |     |     | .68  |      | 1.47   |      |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                         | Sunshine.                               |                                  |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|-----------------------------------------|-----------------------------------------|----------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity, per cent. at 8 a. m. | Relative humidity, per cent. at 8 p. m. | Percentage of possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                         |                                         |                                  |
| Atlantic City.....    | 30.04         | 30.29    | 20    | 29.70   | 30    | 7                | 27              | s.         | 21        | 82                                      | 80                                      | 63                               |
| Cape May City.....    | 30.08         | 30.30    | 20    | 29.90   | 30    | 7                | 29              | s.         | 21        | 84                                      | 80                                      | .....                            |
| Long Branch.....      |               |          |       |         |       |                  | 63              | nw.        | 30        |                                         |                                         |                                  |
| Newark.....           |               |          |       |         |       |                  |                 |            |           |                                         |                                         |                                  |
| New York, N. Y.....   | 30.03         | 30.31    | 20    | 29.62   | 30    | 14               | 56              | nw.        | 3         | 66*                                     | 63†                                     | 60                               |
| Philadelphia, Pa..... | 30.05         | 30.30    | 20    | 29.66   | 30    | 8                | 38              | s.         | 30        | 74                                      | 70                                      | 61                               |
| Ridgefield.....       | 30.02         | 30.30    | 20    | 29.60   | 30    |                  |                 |            |           | 79                                      | 77                                      | 58                               |
| Sandy Hook.....       | 30.03         | 30.31    | 20    | 29.61   | 30    | 13               | 52              | s.         | 30        | 77                                      | 76                                      | 63                               |
| Trenton.....          | 30.03         | 30.30    | 20    | 29.60   | 30    | 9                | 58              | s.         | 30        | 77                                      | 70                                      | 59                               |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for September, 1921.

| Stations.                            | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18   | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30   | 31   | Mean. |      |      |
|--------------------------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|------|------|-------|------|------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |      |      |       |      |      |
| Belvidere.....                       | Maximum..... | 86 | 91 | 90 | 82 | 76 | 82 | 83 | 83 | 81 | 84 | 79 | 77 | 81 | 75 | 81 | 76 | 70   | 81 | 76 | 73 | 67 | 79 | 81 | 77 | 74 | 73 | 78 | 79 | 85   | 84   | 79.5  |      |      |
|                                      | Minimum..... | 64 | 67 | 69 | 65 | 58 | 66 | 63 | 63 | 56 | 59 | 63 | 64 | 63 | 50 | 54 | 54 | 74   | 61 | 52 | 50 | 54 | 50 | 55 | 47 | 52 | 48 | 44 | 59 | 58   | 60   | 57.1  |      |      |
| Charlotteburg.....                   | Maximum..... | 86 | 91 | 87 | 85 | 80 | 79 | 83 | 76 | 84 | 85 | 83 | 74 | 78 | 77 | 74 | 76 | 77   | 75 | 70 | 77 | 79 | 78 | 75 | 74 | 69 | 57 | 51 | 63 | 77.8 |      |       |      |      |
|                                      | Minimum..... | 59 | 59 | 68 | 63 | 49 | 63 | 60 | 58 | 43 | 50 | 57 | 58 | 47 | 42 | 54 | 46 | 50   | 49 | 39 | 56 | 49 | 56 | 42 | 44 | 49 | 36 | 57 | 51 | 63   | 55.9 |       |      |      |
| Dover.....                           | Maximum..... | 84 | 92 | 91 | 80 | 75 | 80 | 82 | 81 | 79 | 83 | 79 | 76 | 78 | 74 | 79 | 73 | 69   | 80 | 73 | 69 | 66 | 79 | 75 | 74 | 72 | 66 | 80 | 83 | 82   | 80.8 |       |      |      |
|                                      | Minimum..... | 64 | 64 | 65 | 62 | 56 | 65 | 61 | 51 | 53 | 58 | 62 | 53 | 58 | 50 | 52 | 57 | 55   | 59 | 50 | 47 | 59 | 61 | 56 | 47 | 51 | 47 | 43 | 59 | 57   | 54   | 54.7  |      |      |
| Layton.....                          | Maximum..... | 92 | 98 | 94 | 89 | 81 | 83 | 88 | 85 | 81 | 85 | 79 | 79 | 80 | 78 | 83 | 78 | 71   | 81 | 76 | 75 | 65 | 81 | 81 | 79 | 73 | 72 | 70 | 81 | 85   | 81   | 78.4  |      |      |
|                                      | Minimum..... | 60 | 62 | 68 | 63 | 54 | 65 | 60 | 49 | 52 | 60 | 63 | 56 | 45 | 50 | 54 | 52 | 63   | 48 | 43 | 59 | 53 | 41 | 56 | 75 | 71 | 69 | 78 | 83 | 81   | 58.2 |       |      |      |
| Newton.....                          | Maximum..... | 87 | 94 | 90 | 82 | 77 | 83 | 81 | 82 | 80 | 83 | 78 | 78 | 79 | 78 | 80 | 75 | 70   | 78 | 73 | 71 | 66 | 78 | 75 | 75 | 71 | 69 | 78 | 83 | 81   | 59   | 79.3  |      |      |
|                                      | Minimum..... | 63 | 67 | 68 | 66 | 58 | 64 | 62 | 54 | 56 | 60 | 68 | 64 | 61 | 50 | 56 | 56 | 57   | 57 | 51 | 48 | 60 | 59 | 49 | 53 | 56 | 45 | 58 | 61 | 59   | 60   | 62.0  |      |      |
| Phillipsburg.....                    | Maximum..... | 87 | 94 | 90 | 82 | 77 | 83 | 81 | 82 | 80 | 83 | 78 | 78 | 79 | 78 | 80 | 75 | 70   | 78 | 73 | 71 | 66 | 78 | 75 | 75 | 71 | 69 | 78 | 83 | 81   | 59   | 79.3  |      |      |
|                                      | Minimum..... | 63 | 67 | 68 | 66 | 58 | 64 | 62 | 54 | 56 | 60 | 68 | 64 | 61 | 50 | 56 | 56 | 57   | 57 | 51 | 48 | 60 | 59 | 49 | 53 | 56 | 45 | 58 | 61 | 59   | 60   | 62.0  |      |      |
| Sussex.....                          | Maximum..... | 87 | 95 | 95 | 86 | 81 | 88 | 87 | 85 | 87 | 83 | 80 | 82 | 80 | 83 | 79 | 70 | 81   | 78 | 73 | 71 | 66 | 78 | 75 | 75 | 71 | 69 | 78 | 83 | 81   | 59   | 79.3  |      |      |
|                                      | Minimum..... | 65 | 67 | 68 | 66 | 58 | 64 | 62 | 54 | 56 | 60 | 68 | 64 | 61 | 50 | 56 | 56 | 57   | 57 | 51 | 48 | 60 | 59 | 49 | 53 | 56 | 45 | 58 | 61 | 59   | 60   | 62.0  |      |      |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |      |      |       |      |      |
| Bergen Point.....                    | Maximum..... | 81 | 91 | 89 | 91 | 83 | 83 | 82 | 79 | 83 | 80 | 76 | 79 | 75 | 79 | 74 | 72 | 79   | 74 | 73 | 70 | 79 | 79 | 78 | 80 | 72 | 73 | 81 | 84 | 87   | 79.3 |       |      |      |
|                                      | Minimum..... | 68 | 66 | 68 | 69 | 64 | 68 | 65 | 61 | 61 | 64 | 66 | 66 | 65 | 58 | 57 | 61 | 57   | 66 | 57 | 61 | 60 | 58 | 61 | 60 | 58 | 61 | 57 | 53 | 61   | 64   | 61    | 62.0 |      |
| Boonton§§.....                       | Maximum..... | 85 | 93 | 93 | 86 | 82 | 85 | 87 | 87 | 81 | 81 | 81 | 81 | 80 | 82 | 80 | 79 | 75   | 81 | 79 | 76 | 71 | 80 | 82 | 78 | 77 | 74 | 69 | 81 | 86   | 81   | 81.1  |      |      |
|                                      | Minimum..... | 63 | 63 | 66 | 65 | 54 | 65 | 62 | 49 | 50 | 55 | 60 | 62 | 58 | 47 | 50 | 55 | 51   | 56 | 52 | 45 | 50 | 58 | 53 | 43 | 46 | 45 | 41 | 50 | 55   | 63   | 54.4  |      |      |
| Elizabeth.....                       | Maximum..... | 87 | 97 | 96 | 85 | 80 | 86 | 85 | 87 | 83 | 88 | 86 | 84 | 79 | 86 | 85 | 83 | 80   | 71 | 84 | 80 | 77 | 68 | 84 | 86 | 76 | 83 | 78 | 76 | 86   | 90   | 88    | 83.3 |      |
|                                      | Minimum..... | 66 | 67 | 70 | 67 | 59 | 68 | 63 | 54 | 55 | 60 | 64 | 66 | 63 | 50 | 52 | 58 | 54   | 67 | 52 | 49 | 62 | 62 | 58 | 47 | 52 | 48 | 46 | 61 | 61   | 62   | 58.8  |      |      |
| Flemington.....                      | Maximum..... | 90 | 96 | 95 | 83 | 75 | 84 | 85 | 88 | 83 | 85 | 81 | 79 | 83 | 81 | 82 | 79 | 72   | 83 | 81 | 71 | 69 | 84 | 85 | 81 | 80 | 79 | 69 | 84 | 88   | 85   | 82.0  |      |      |
|                                      | Minimum..... | 65 | 67 | 71 | 68 | 62 | 67 | 66 | 56 | 58 | 59 | 63 | 67 | 63 | 50 | 55 | 60 | 57   | 67 | 55 | 53 | 60 | 55 | 51 | 55 | 50 | 46 | 61 | 56 | 61   | 56   | 59.4  |      |      |
| Highwood.....                        | Maximum..... | 81 | 92 | 91 | 79 | 76 | 80 | 81 | 81 | 78 | 84 | 80 | 73 | 78 | 72 | 79 | 72 | 70   | 80 | 70 | 71 | 69 | 79 | 79 | 73 | 75 | 72 | 69 | 81 | 85   | 85   | 77.8  |      |      |
|                                      | Minimum..... | 68 | 65 | 68 | 66 | 62 | 67 | 64 | 52 | 52 | 58 | 65 | 62 | 62 | 49 | 48 | 57 | 53   | 66 | 53 | 47 | 62 | 62 | 54 | 45 | 50 | 49 | 44 | 61 | 58   | 59   | 57.6  |      |      |
| Jersey City.....                     | Maximum..... | 86 | 93 | 96 | 83 | 77 | 82 | 87 | 88 | 82 | 87 | 84 | 77 | 85 | 77 | 83 | 78 | 70   | 85 | 77 | 72 | 70 | 85 | 84 | 78 | 79 | 77 | 74 | 81 | 88   | 89   | 81.8  |      |      |
|                                      | Minimum..... | 68 | 69 | 72 | 67 | 65 | 66 | 66 | 61 | 62 | 65 | 67 | 68 | 66 | 57 | 60 | 62 | 60   | 62 | 63 | 65 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66   | 66   | 66    | 62.0 |      |
| Kearny.....                          | Maximum..... | 85 | 95 | 95 | 89 | 81 | 84 | 92 | 90 | 82 | 86 | 81 | 77 | 82 | 80 | 82 | 80 | 71   | 83 | 81 | 75 | 72 | 82 | 83 | 77 | 79 | 75 | 72 | 84 | 85   | 87   | 79.6  |      |      |
|                                      | Minimum..... | 69 | 68 | 72 | 69 | 61 | 67 | 66 | 59 | 59 | 66 | 67 | 65 | 66 | 55 | 58 | 64 | 61   | 69 | 55 | 54 | 63 | 65 | 64 | 53 | 56 | 55 | 50 | 61 | 63   | 60   | 62.0  |      |      |
| Lambertville.....                    | Maximum..... | 85 | 93 | 92 | 81 | 74 | 81 | 83 | 83 | 83 | 83 | 85 | 82 | 76 | 81 | 77 | 79 | 78   | 70 | 78 | 72 | 73 | 69 | 80 | 80 | 77 | 74 | 70 | 83 | 86   | 84   | 79.6  |      |      |
|                                      | Minimum..... | 64 | 67 | 71 | 65 | 60 | 63 | 64 | 60 | 59 | 61 | 62 | 64 | 64 | 60 | 59 | 61 | 79   | 77 | 83 | 78 | 75 | 71 | 82 | 83 | 79 | 78 | 76 | 73 | 85   | 88   | 82.4  |      |      |
| Little Falls§§.....                  | Maximum..... | 85 | 96 | 96 | 85 | 82 | 87 | 87 | 86 | 84 | 87 | 82 | 79 | 83 | 78 | 81 | 79 | 75   | 83 | 78 | 75 | 71 | 82 | 83 | 79 | 78 | 76 | 73 | 85 | 88   | 88   | 82.4  |      |      |
|                                      | Minimum..... | 66 | 65 | 67 | 66 | 57 | 66 | 64 | 51 | 52 | 58 | 63 | 62 | 62 | 49 | 53 | 58 | 53   | 47 | 55 | 61 | 56 | 45 | 51 | 48 | 45 | 52 | 58 | 64 | 57   | 57.0 |       |      |      |
| Newark.....                          | Maximum..... | 84 | 95 | 97 | 86 | 79 | 83 | 86 | 86 | 81 | 86 | 80 | 77 | 83 | 80 | 81 | 78 | 71   | 83 | 78 | 75 | 70 | 81 | 81 | 74 | 76 | 75 | 71 | 82 | 85   | 87   | 81.0  |      |      |
|                                      | Minimum..... | 70 | 68 | 72 | 68 | 63 | 65 | 63 | 60 | 63 | 67 | 67 | 68 | 64 | 58 | 60 | 63 | 62   | 65 | 57 | 56 | 63 | 64 | 60 | 53 | 57 | 56 | 52 | 61 | 63   | 57   | 62.2  |      |      |
| New Brunswick.....                   | Maximum..... | 84 | 93 | 93 | 92 | 74 | 83 | 81 | 83 | 86 | 87 | 83 | 78 | 87 | 79 | 82 | 79 | 74   | 85 | 53 | 50 | 60 | 62 | 57 | 54 | 50 | 46 | 61 | 61 | 60   | 60   | 59.2  |      |      |
|                                      | Minimum..... | 66 | 65 | 70 | 68 | 62 | 66 | 65 | 58 | 56 | 59 | 64 | 66 | 63 | 50 | 54 | 58 | 54   | 58 | 53 | 47 | 66 | 79 | 77 | 69 | 83 | 84 | 79 | 78 | 77   | 71   | 85    | 89   | 82.5 |
| Paterson.....                        | Maximum..... | 85 | 97 | 95 | 85 | 85 | 85 | 87 | 83 | 88 | 82 | 75 | 83 | 79 | 84 | 77 | 72 | 86   | 79 | 77 | 69 | 83 | 84 | 79 | 79 | 77 | 71 | 85 | 88 | 89   | 89   | 82.5  |      |      |
|                                      | Minimum..... | 63 | 68 | 72 | 69 | 61 | 67 | 65 | 55 | 57 | 62 | 66 | 62 | 54 | 53 | 54 | 60 | 60   | 60 | 55 | 52 | 62 | 82 | 82 | 76 | 80 | 75 | 72 | 83 | 88   | 87   | 80.6  |      |      |
| Plainfield.....                      | Maximum..... | 86 | 95 | 94 | 82 | 75 | 82 | 83 | 84 | 80 | 86 | 85 | 76 | 82 | 77 | 80 | 77 | 68   | 83 | 76 | 73 | 69 | 59 | 59 | 54 | 46 | 50 | 46 | 50 | 67   | 60   | 56.9  |      |      |
|                                      | Minimum..... | 65 | 63 | 64 | 64 | 60 | 65 | 64 | 56 | 54 | 57 | 60 | 64 | 61 | 49 | 51 | 59 | 51   | 59 | 51 | 59 | 51 | 73 | 73 | 70 | 80 | 80 | 75 | 72 | 71   | 82   | 85    | 86   | 78.9 |
| Ridgefield.....                      | Maximum..... | 81 | 93 | 91 | 81 | 77 | 83 | 83 | 83 | 79 | 84 | 81 | 73 | 80 | 73 | 80 | 74 | 69   | 58 | 51 | 49 | 62 | 63 | 57 | 48 | 52 | 49 | 46 | 61 | 61   | 54   | 54.1  |      |      |
|                                      | Minimum..... | 68 | 65 | 70 | 66 | 61 | 66 | 64 | 54 | 54 | 60 | 63 | 63 | 59 | 50 | 55 | 58 | 55   | 58 | 51 | 49 | 62 | 63 | 57 | 48 | 52 | 49 | 46 | 61 | 61   | 54   | 54.1  |      |      |
| Somerville.....                      | Maximum..... | 87 | 96 | 94 | 85 | 78 | 86 | 84 | 79 | 82 | 88 | 84 | 82 | 84 | 86 | 77 | 79 | 80</ |    |    |    |    |    |    |    |    |    |    |    |      |      |       |      |      |



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# CLIMATOLOGICAL DATA.

DEC 1 1921

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist,

VOL. XXVI. TRENTON, N. J., OCTOBER, 1921. No. 10.

### GENERAL SUMMARY.

The fine autumn weather usually to be attributed to October prevailed during the month, and in some respects it was one of the most delightful months for out-of-door enjoyment of which there is record. In portions of southwestern counties, the warmth was a little above normal, but slightly subnormal elsewhere. The fall of rain was uniformly light and infrequent of occurrence. Records from 1885 to date show but one drier month of October and that was in 1892. The driest portion of the State was that section across the middle from westerly to easterly, and at no station was the rain within an inch and a half of normal. Periods of cool and warm weather alternated with consistent regularity. The lowest temperature readings occurred on the 27th, when it was below freezing in nearly all portions of the State, except along the lower reaches of the Delaware River and the Sea Coast, and in many instances was the lowest October reading known in New Jersey.

The steady deficiency of rain caused a notable lack of water in streams and ponds, and transportation of water was necessary on some farms. In spite of the drought, fall grains made a very satisfactory start, with good germination and root growth.

Storm warnings were displayed along the coast on the 5th, 7th, 8th, 10th, and 22d.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 36 stations, was 54.1°, which was 0.9° below the normal. The highest temperature was 82° at Tuckerton on the 2d, and the lowest, 16°, at Charlotteburg on the 27th. The highest monthly mean temperature was 58.3° at Cape May City, and the lowest, 51.0° at Charlotteburg and Layton. The greatest daily range of temperature was 46° at Camp Dix and Charlotteburg on the 6th.

The temperature departure from the normal for the year 1921, to date, by sections is: The Highlands, +3.1°; Red Sandstone Plain, +3.0°; Southern Interior, +3.1°; Sea Coast, +2.6°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 42 stations, was 0.97 inch, which was 2.76 inches below the normal. The greatest monthly rainfall was 2.18 inches at Culvers Lake, and the least, 0.33 inch at Long Branch. The greatest amount of rain in any 24 consecutive hours was 1.31 inches at Culvers Lake on the 20th. The mean of the number of days on which 0.01 inch or more of rain fell was 5, or 3 less than the normal. A trace of snow fell at Culvers Lake on the 12th.

The precipitation accumulated departure from the normal for the year 1921 to date, by sections, is: The Highlands, -5.03 inches; Red Sandstone Plain, -7.97 inches; Sea Coast, -9.39 inches.

### WIND.

The prevailing direction was from the southwest, with an approximate velocity of 11 miles per hour, which was somewhat above the normal. The highest velocity, sustained for 5 con-

secutive minutes, was 50 miles per hour from the south at Sandy Hook on the 10th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, or 4 more than the normal; partly cloudy, 7, or 1 less than the normal; cloudy, 6, or 3 less than the normal. The approximate per cent of possible sunshine was 71, which was about 10 per cent above the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.02 inches, which was 0.05 inch below the normal. The highest reading was 30.57 inches at Cape May City on the 4th, and the lowest, 29.41 inches at Sandy Hook on the 20th.

The mean stage of the Delaware River at Phillipsburg was 0.9 feet, and the highest stage, 1.5 feet on the 25th. At Trenton the mean stage was 0.6 foot, which was 0.7 foot below the normal. The highest stage, 1.3 feet, occurred on the 24th.

Thunderstorms occurred in some portions of the State on the 12th, 19th, and 20th. Dense fog occurred on the 3d, 15th, 18th, 28th, 29th, 30th, and 31st. A lunar halo was observed on the 15th, and solar halos were observed on the 2d, 7th, 10th, 15th, 18th, and 28th. A few hailstones fell at Trenton on the 12th, and at Bridgeton and Chatham on the 20th. Killing frost occurred in all portions of the State, excepting along the coast, on the 26th and 27th, and at a few stations in central and northern districts as early as the 9th and 14th.

### ERRATA.

August, 1921:—Page 30: Paterson, mean temperature should read 70.9° instead of 72.2°, and the departure -2.6° instead of -1.3°.

### COMPARATIVE DATA FOR OCTOBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 54.2         | 82       | 29      | 4.20           | 5.85      | 2.91   | .....        | .....          | .....   | .....                  |
| 1886..... | 55.6         | 88       | 21      | 3.22           | 8.16      | 2.02   | .....        | .....          | .....   | .....                  |
| 1887..... | 52.3         | 89       | 21      | 2.61           | 5.00      | 1.58   | .....        | .....          | .....   | .....                  |
| 1888..... | 49.2         | 73       | 25      | 4.73           | 7.00      | 2.97   | .....        | .....          | .....   | .....                  |
| 1889..... | 50.8         | 82       | 23      | 3.80           | 5.03      | 2.42   | .....        | .....          | .....   | .....                  |
| 1890..... | 53.9         | 81       | 24      | 6.33           | 10.18     | 3.40   | .....        | .....          | .....   | .....                  |
| 1891..... | 52.8         | 92       | 18      | 3.44           | 5.57      | 1.88   | 11           | 11             | 9       | 8                      |
| 1892..... | 53.6         | 85       | 21      | 0.52           | 1.09      | 0.04   | 14           | 12             | 5       | 4                      |
| 1893..... | 55.2         | 85       | 17      | 4.22           | 6.59      | 1.74   | 15           | 7              | 9       | 7                      |
| 1894..... | 55.3         | 87       | 27      | 5.67           | 8.23      | 3.90   | 12           | 7              | 12      | 10                     |
| 1895..... | 49.9         | 83       | 18      | 3.60           | 5.53      | 1.62   | 19           | 7              | 5       | 5                      |
| 1896..... | 51.5         | 82       | 21      | 2.24           | 4.58      | 1.72   | 11           | 8              | 12      | 8                      |
| 1897..... | 55.8         | 95       | 22      | 2.43           | 6.49      | 0.87   | 14           | 8              | 9       | 7                      |
| 1898..... | 56.5         | 88       | 24      | 5.76           | 8.42      | 3.92   | 13           | 9              | 9       | 10                     |
| 1899..... | 56.6         | 86       | 18      | 2.72           | 4.65      | 1.07   | 13           | 10             | 8       | 6                      |
| 1900..... | 59.9         | 92       | 19      | 3.70           | 6.59      | 1.47   | 10           | 8              | 13      | 10                     |
| 1901..... | 54.4         | 82       | 21      | 1.93           | 4.45      | 0.87   | 17           | 8              | 6       | 4                      |
| 1902..... | 56.0         | 80       | 20      | 6.39           | 9.35      | 3.82   | 15           | 7              | 9       | 8                      |
| 1903..... | 55.9         | 86       | 24      | 8.92           | 16.19     | 4.17   | 13           | 9              | 9       | 8                      |
| 1904..... | 51.9         | 89       | 15      | 3.78           | 7.01      | 1.50   | 20           | 6              | 5       | 5                      |
| 1905..... | 55.5         | 90       | 17      | 2.71           | 4.83      | 0.75   | 18           | 7              | 6       | 7                      |
| 1906..... | 55.0         | 80       | 11      | 4.46           | 7.14      | 2.66   | 8            | 9              | 14      | 11                     |
| 1907..... | 50.6         | 80       | 18      | 4.46           | 7.18      | 2.70   | 22           | 5              | 4       | 7                      |
| 1908..... | 57.3         | 92       | 19      | 2.71           | 5.14      | 1.30   | 15           | 5              | 11      | 8                      |
| 1909..... | 51.2         | 84       | 18      | 1.18           | 1.82      | 0.40   | 17           | 7              | 7       | 8                      |
| 1910..... | 57.2         | 90       | 18      | 3.15           | 5.55      | 1.55   | 15           | 8              | 8       | 7                      |
| 1911..... | 53.9         | 80       | 18      | 5.49           | 8.23      | 2.61   | 10           | 9              | 12      | 12                     |
| 1912..... | 57.0         | 88       | 25      | 3.30           | 6.95      | 1.72   | 17           | 8              | 6       | 5                      |
| 1913..... | 57.8         | 83       | 25      | 7.79           | 13.84     | 2.70   | 12           | 9              | 10      | 11                     |
| 1914..... | 58.1         | 88       | 19      | 1.99           | 3.08      | 0.90   | 13           | 9              | 9       | 9                      |
| 1915..... | 56.2         | 84       | 23      | 3.03           | 5.18      | 1.89   | 17           | 7              | 7       | 9                      |
| 1916..... | 55.1         | 92       | 23      | 1.37           | 2.38      | 0.51   | 18           | 8              | 5       | 4                      |
| 1917..... | 50.7         | 84       | 17      | 6.99           | 9.74      | 4.28   | 15           | 8              | 8       | 10                     |
| 1918..... | 57.0         | 84       | 22      | 1.25           | 2.36      | 0.74   | 16           | 9              | 6       | 8                      |
| 1919..... | 59.0         | 92       | 24      | 3.43           | 4.97      | 2.01   | 9            | 8              | 14      | 13                     |
| 1920..... | 59.0         | 87       | 25      | 1.80           | 4.53      | 0.55   | 20           | 5              | 6       | 5                      |
| 1921..... | 54.1         | 82       | 16      | 0.97           | 2.18      | 0.33   | 18           | 7              | 6       | 5                      |



## Climatological Data for October, 1921.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 30                       | 52.8                          | -1.0                       | 76       | 7     | 24      | 28    | 39                        | 1.87   | -1.80                      | 1.06                  | 0                          | 4                              | 24     | 4           | 3                             | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 29                       | 51.0 <sup>a</sup>             | -0.6                       | 76       | 1     | 16      | 27    | 46                        | 1.45   | -3.02                      | 0.78                  | T.                         | 5                              | 20     | 8           | 3                             | sw.        | George S. Briggs.         |
| Culvers Lake††.....                         | Sussex.....     | 848              | 20                       | 51.8                          | +0.5                       | 75       | 1†    | 19      | 26†   | 41                        | 2.18   | -2.00                      | 1.31                  | 0                          | 7                              | 21     | 5           | 5                             | sw.        | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 37                       | 51.8                          | +0.5                       | 75       | 1†    | 22      | 27    | 41                        | 1.54   | -2.53                      | 0.95                  | 0                          | 4                              | 11     | 13          | 7                             | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 20                       | 51.0                          | -0.2                       | 77       | 2     | 18      | 27    | 45                        | 1.51   | -2.11                      | 0.97                  | 0                          | 6                              | 17     | 5           | 9                             | sw.        | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 38                       | 51.8 <sup>a</sup>             | -0.9                       | 75       | 7     | 26      | 27    | 35                        | 2.05   | -1.58                      | 1.13                  | 0                          | 6                              | .....  | .....       | .....                         | sw.        | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 52.4 <sup>a</sup>             | -0.8                       | 78       | 2†    | 20      | 27    | 44                        | 1.57   | -1.87                      | 1.13                  | 0                          | 5                              | .....  | .....       | .....                         | sw.        | Mrs. D. Wilson Smith.     |
| Sussex.....                                 | Sussex.....     | 442              | 27                       | 52.4 <sup>a</sup>             | -0.8                       | 78       | 2†    | 20      | 27    | 44                        | 1.57   | -1.87                      | 1.13                  | 0                          | 5                              | .....  | .....       | .....                         | sw.        | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 51.8                          | -0.7                       | 78       | 2†    | 16      | 27    | 46                        | 1.74   | -2.13                      | 1.31                  | 0                          | 5                              | 19     | 7           | 5                             | sw.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 24                       | 54.2 <sup>c</sup>             | -2.0                       | 78       | 7     | 34      | 26†   | 32                        | 0.91   | -3.76                      | 0.35                  | 0                          | 5                              | 10     | 18          | 3                             | sw.        | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 31                       | 52.2                          | -0.6                       | 76       | 2†    | 19      | 27    | 45                        | 0.99   | -2.92                      | 0.40                  | 0                          | 5                              | 24     | 3           | 4                             | ne.        | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 17                       | 54.5                          | -0.9                       | 81       | 7     | 26      | 27    | 42                        | 0.84   | -3.53                      | 0.26                  | 0                          | 5                              | 20     | 8           | 3                             | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 42                       | 54.5                          | -0.9                       | 81       | 7     | 26      | 27    | 42                        | 1.27   | -2.62                      | 0.83                  | 0                          | 4                              | 12     | 15          | 4                             | sw.        | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 35                       | 54.8                          | -1.2                       | 78       | 2†    | 23      | 27    | 45                        | 0.93   | -2.73                      | 0.33                  | 0                          | 5                              | 23     | 4           | 4                             | w.         | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 33                       | 51.6                          | -1.8                       | 75       | 2     | 21      | 27    | 40                        | 1.03   | -3.39                      | 0.49                  | 0                          | 5                              | 14     | 8           | 9                             | sw.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 56.3                          | 0.0                        | 79       | 7     | 34      | 27    | 31                        | 0.76   | -2.92                      | 0.25                  | 0                          | 5                              | 11     | 14          | 6                             | s.         | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 2                        | 55.8                          | .....                      | 80       | 7†    | 32      | 27    | 40                        | 0.72   | .....                      | 0.32                  | 0                          | 4                              | 19     | 8           | 4                             | s.         | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 300              | 34                       | 52.6                          | -2.0                       | 77       | 2     | 29      | 26†   | 35                        | 0.76   | -2.72                      | 0.32                  | 0                          | 6                              | 23     | 4           | 4                             | w.         | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 31                       | 53.4                          | -1.5                       | 79       | 2†    | 23      | 27    | 45                        | 0.64   | -3.87                      | 0.23                  | 0                          | 5                              | 19     | 5           | 7                             | w.         | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 79                       | 54.7                          | -1.1                       | 77       | 10    | 33      | 27    | 35                        | 0.69   | -3.18                      | 0.24                  | 0                          | 7                              | 15     | 10          | 6                             | sw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 68                       | 54.6                          | -1.0                       | 80       | 7     | 24      | 27    | 43                        | 0.53   | -3.05                      | 0.17                  | 0                          | 5                              | 21     | 5           | 5                             | s.         | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 80               | 60                       | 55.8                          | +0.6                       | 80       | 7     | 29      | 27    | 39                        | 0.69   | -3.40                      | 0.24                  | 0                          | 4                              | 10     | 4           | 17                            | sw.        | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 110              | 33                       | 52.2                          | -2.0                       | 78       | 7     | 25      | 27    | 43                        | 0.76   | -3.39                      | 0.23                  | 0                          | 5                              | 14     | 12          | 5                             | nw.        | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 70               | 6                        | 52.0                          | .....                      | 75       | 2†    | 25      | 27    | 36                        | 0.74   | .....                      | 0.25                  | 0                          | 6                              | 17     | 10          | 4                             | nw.        | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 70               | 6                        | 52.0                          | .....                      | 75       | 2†    | 25      | 27    | 36                        | 0.74   | .....                      | 0.25                  | 0                          | 6                              | 17     | 10          | 4                             | nw.        | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 38                       | 54.3 <sup>a</sup>             | +0.1                       | 78       | 7     | 27      | 27    | 35                        | 0.67   | -3.77                      | 0.44                  | 0                          | 4                              | 21     | 7           | 3                             | w.         | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 200              | 51                       | 52.5                          | -0.9                       | 74       | 7     | 29      | 27    | 33                        | 0.69   | -3.15                      | 0.48                  | 0                          | 4                              | 27     | 2           | 2                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake††.....                       | Bergen.....     | 365              | 51                       | 56.2                          | +0.6                       | 74       | 2     | 38      | 26    | 24                        | 0.74   | -2.97                      | 0.27                  | 0                          | 3                              | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| New York, N. Y.....                         |                 |                  |                          | 53.8                          | -1.0                       | 81       | 7     | 19      | 27    | 45                        | 0.79   | -3.12                      | 0.83                  | 0                          | 5                              | 18     | 7           | 6                             | w.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 53.8                          | -1.0                       | 81       | 7     | 19      | 27    | 45                        | 0.79   | -3.12                      | 0.83                  | 0                          | 5                              | 18     | 7           | 6                             | w.         |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton.....                              | Cumberland..... | 30               | 40                       | 57.0                          | -0.4                       | 80       | 1†    | 32      | 26    | 39                        | 0.98   | -2.61                      | 0.45                  | 0                          | 5                              | 29     | 0           | 2                             | sw.        | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 35                       | 56.1                          | -2.4                       | 81       | 7     | 30      | 27    | 39                        | 0.43   | -3.25                      | 0.15                  | 0                          | 5                              | 24     | 2           | 5                             | sw.        | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 3                        | 54.6 <sup>a</sup>             | .....                      | 78       | 2†    | 26      | 26    | 46                        | 0.84   | .....                      | 0.38                  | 0                          | 8                              | 2      | 2           | 27                            | se.        | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 28                       | 54.6 <sup>a</sup>             | .....                      | 78       | 2†    | 26      | 26    | 46                        | 0.84   | .....                      | 0.38                  | 0                          | 8                              | 2      | 2           | 27                            | se.        | Marvin E. Porch.          |
| Hammononton.....                            | Atlantic.....   | 108              | 20                       | 53.5                          | -1.7                       | 79       | 7†    | 24      | 27    | 42                        | 0.79   | -2.76                      | 0.36                  | 0                          | 4                              | 25     | 4           | 2                             | s.         | Charles M. Phillips.      |
| Highstown.....                              | Mercer.....     | 120              | 29                       | 53.5                          | -1.7                       | 79       | 7†    | 24      | 27    | 42                        | 0.84   | -2.87                      | 0.22                  | 0                          | 5                              | 26     | 2           | 3                             | nw.        | E. H. Savage, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 33                       | 54.1                          | -1.0                       | 78       | 2†    | 27      | 27    | 44                        | 0.66   | -3.20                      | 0.22                  | 0                          | 7                              | 21     | 4           | 6                             | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 32                       | 53.8                          | -1.7                       | 81       | 2     | 26      | 26    | 45                        | 0.64   | -2.80                      | 0.35                  | 0                          | 4                              | 21     | 6           | 4                             | sw.        | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 17                       | 52.4                          | -2.7                       | 76       | 2†    | 27      | 27    | 38                        | 0.81   | -2.78                      | 0.30                  | 0                          | 5                              | 21     | 4           | 6                             | w.         | R. W. Holman.             |
| Moorestown††.....                           | Burlington..... | 75               | 58                       | 56.7 <sup>b</sup>             | +2.0                       | 80       | 2†    | 29      | 27    | 43                        | 0.97   | -2.60                      | 0.21                  | 0                          | 7                              | 16     | 9           | 6                             | w.         | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 14                       | 56.7 <sup>b</sup>             | +2.0                       | 80       | 2†    | 29      | 27    | 43                        | 1.33   | -1.45                      | 0.99                  | 0                          | 4                              | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 23                       | 56.7 <sup>b</sup>             | +2.0                       | 80       | 2†    | 29      | 27    | 43                        | 1.15   | -2.29                      | 0.93                  | 0                          | 3                              | 28     | 1           | 2                             | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 49                       | 55.0                          | -0.6                       | 77       | 7     | 33      | 26    | 32                        | 0.34   | -3.07                      | 0.10                  | 0                          | 5                              | 11     | 11          | 9                             | w.         | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 28                       | 55.2                          | -0.9                       | 82       | 2     | 32      | 27†   | 43                        | 1.09   | -2.44                      | 0.75                  | 0                          | 3                              | 21     | 8           | 2                             | sw.        | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 52                       | 58.0 <sup>a</sup>             | +2.0                       | 80       | 2†    | .....   | ..... | 35 <sup>a</sup>           | 0.62   | -2.72                      | 0.27                  | 0                          | 4                              | .....  | .....       | .....                         | nw.        | H. C. Himes.              |
| Woodbine.....                               | Cape May.....   | 43               | 28                       | 57.7                          | +1.4                       | 78       | 7     | 36      | 26    | 28                        | 0.40   | -2.70                      | 0.13                  | 0                          | 5                              | 14     | 12          | 5                             | nw.        | W. I. Zechman.            |
| Philadelphia, Pa.....                       |                 | 117              | 51                       | 57.7                          | +1.4                       | 78       | 7     | 36      | 26    | 28                        | 0.40   | -2.70                      | 0.13                  | 0                          | 5                              | 14     | 12          | 5                             | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 55.1                          | -0.7                       | 82       | 2     | 24      | 27    | 46                        | 0.82   | -2.68                      | 0.99                  | 0                          | 5                              | 20     | 5           | 6                             | sw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 32                       | 55.0 <sup>a</sup>             | -0.8                       | 75       | 2     | 36      | 27    | 32                        | 0.46   | -3.25                      | 0.20                  | 0                          | 4                              | 18     | 12          | 1                             | sw.        | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 56.8                          | -0.6                       | 73       | 2     | 38      | 13    | 22                        | 1.37   | -1.93                      | 1.11                  | 0                          | 4                              | 17     | 10          | 4                             | w.         | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 37                       | 58.3                          | -1.3                       | 74       | 2     | 39      | 26    | 25                        | 1.62   | -1.68                      | 1.32                  | 0                          | 5                              | 15     | 7           | 9                             | nw.        | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 14                       | 52.6                          | -3.7                       | 74       | 2     | 32      | 27    | 34                        | 0.33   | -3.72                      | 0.13                  | 0                          | 5                              | 17     | 9           | 5                             | nw.        | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 23                       | 56.0                          | -1.0                       | 74       | 2     | 39      | 26    | 22                        | 0.49   | -2.76                      | 0.15                  | 0                          | 4                              | 11     | 15          | 5                             | sw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 55.7                          | -1.5                       | 75       | 2     | 32      | 27    | 32                        | 0.85   | -2.67                      | 1.11                  | 0                          | 4                              | 15     | 10          | 6                             | nw.        |                           |
| For the State.....                          |                 |                  |                          | 54.1                          | -0.9                       | 82       | 2     | 16      | 27    | 46                        | 0.97   | -2.76                      | 1.31                  | 0                          | 5                              | 18     | 7           | 6                             | sw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for October, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     | Total. |      |      |
|--------------------------------------------|-----------------|---------------|---|------|-----|-----|---|---|-----|-----|----|----|-----|-----|----|----|----|----|----|-----|------|------|-----|----|----|----|----|----|----|----|-----|-----|--------|------|------|
|                                            |                 | 1             | 2 | 3    | 4   | 5   | 6 | 7 | 8   | 9   | 10 | 11 | 12  | 13  | 14 | 15 | 16 | 17 | 18 | 19  | 20   | 21   | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  | 31  |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Belvidere.....                             | Delaware.....   |               |   | .33  |     |     |   |   | .35 |     |    |    | .15 |     |    |    |    |    |    |     | 1.06 |      |     |    |    |    |    |    |    |    |     |     | 1.87   |      |      |
| Charlotteburg.....                         | Passaic.....    |               |   | .30  | .06 |     |   |   | .19 |     |    |    | .12 |     |    |    |    |    |    |     | .78  |      |     |    |    |    |    |    |    |    |     |     | 2.18   |      |      |
| Culvers Lake.....                          | Delaware.....   |               |   | .47  | .02 |     |   |   | .30 | .01 |    |    | .05 |     |    |    |    |    |    |     | 1.31 |      |     |    |    |    |    |    |    |    |     |     | 1.45   |      |      |
| Dover.....                                 | Passaic.....    |               |   | .36  |     |     |   |   | .11 |     |    |    | .12 |     |    |    |    |    |    |     | .02  |      |     |    |    |    |    |    |    |    | T.  |     | 2.18   |      |      |
| Layton.....                                | Delaware.....   |               |   | .29  | T.  |     |   |   | .12 | .07 |    |    | .04 |     |    |    |    |    |    |     | .02  | .97  |     |    |    |    |    |    |    |    |     |     | 1.54   |      |      |
| Newton.....                                | Delaware.....   |               |   | .43  |     | .01 |   |   | .16 | .03 |    |    | .29 | T.  |    |    |    |    |    |     | T.   | 1.13 | T.  |    |    |    |    |    |    |    |     |     | 1.51   |      |      |
| Phillipsburg.....                          | do.....         |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     | 2.05   |      |      |
| Sussex.....                                | Hudson.....     |               |   | T.   | .03 |     |   |   | .14 | .03 |    |    | .24 |     |    |    |    |    |    |     | 1.13 |      |     |    |    |    |    |    |    |    |     | T.  | 1.57   |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Bergen Point.....                          | Coast.....      |               |   | *    |     |     |   |   | .32 | †   |    |    | .04 |     |    |    |    |    |    |     | .10  | .35  | .10 |    |    |    |    |    |    |    |     |     | 0.91   |      |      |
| Boonton   .....                            | Passaic.....    | T.            |   | T.   | .30 |     |   |   | .12 |     |    |    | .07 |     |    |    |    |    |    |     | .40  | .10  |     |    |    |    |    |    |    |    |     |     | 0.99   |      |      |
| Chatham   .....                            | do.....         |               |   | .26  |     |     |   |   | .12 |     |    |    | .11 |     |    |    |    |    |    |     | .19  | .16  |     |    |    |    |    |    |    |    |     |     | 0.84   |      |      |
| Elizabeth.....                             | Coast.....      |               |   | .25  |     |     |   |   | .13 | T.  |    |    | .06 |     |    |    |    |    |    |     | T.   |      |     |    |    | T. |    |    |    |    | T.  |     | 1.27   |      |      |
| Flemington.....                            | Raritan.....    |               |   | .33  |     | .13 |   |   | .14 |     |    |    | T.  |     |    |    |    |    |    |     | .33  |      |     |    |    |    |    |    |    |    |     |     | 0.93   |      |      |
| Highwood.....                              | Hackensack..... |               |   | .49  |     | .10 |   |   | .15 |     |    |    | .09 |     |    |    |    |    |    |     | .30  |      |     |    |    |    |    |    |    |    |     | T.  | 1.03   |      |      |
| Jersey City.....                           | Coast.....      |               |   | .25  |     | T.  |   |   | .14 |     |    |    | .05 |     |    |    |    |    |    |     | .22  |      |     |    |    |    |    |    |    |    |     | T.  | 0.76   |      |      |
| Kearny.....                                | Coast.....      |               |   | .26  |     |     |   |   | .12 |     |    |    | .02 |     |    |    |    |    |    |     | .32  |      |     |    |    |    |    |    |    |    |     |     | 0.72   |      |      |
| Lambertville.....                          | Delaware.....   |               |   | .32  |     | .06 |   |   | .09 |     |    |    | .03 |     |    |    |    |    |    |     | .20  |      |     |    |    |    |    |    |    |    |     |     | 0.76   |      |      |
| Little Falls   .....                       | Passaic.....    | T.            |   | .21  |     |     |   |   | .12 |     |    |    | .08 |     |    |    |    |    |    |     | .17  | .06  |     |    |    |    |    |    |    |    | .06 |     | 0.64   |      |      |
| Newark**.....                              | Coast.....      |               |   | .17  |     |     |   |   | .14 | .01 |    |    | .08 |     |    |    |    |    |    |     | .03  | .24  |     |    |    |    |    |    |    |    |     |     | 0.69   |      |      |
| New Brunswick.....                         | Raritan.....    |               |   | .17  |     | .08 |   |   | .09 |     |    |    | .04 | T.  |    |    |    |    |    |     | .15  |      |     |    |    |    |    |    |    |    |     | T.  | 0.53   |      |      |
| New Milford.....                           | Hackensack..... |               |   | .21  |     | .12 |   |   | .14 |     |    |    | .06 |     |    |    |    |    |    |     | .31  |      |     |    |    |    |    |    |    |    |     |     | 0.84   |      |      |
| Paterson.....                              | Passaic.....    |               |   | .20  |     |     |   |   | .10 |     |    |    | .15 |     |    |    |    |    |    |     | .24  |      |     |    |    |    |    |    |    |    |     |     | 0.69   |      |      |
| Plainfield.....                            | Raritan.....    |               |   | .23  |     | .10 |   |   | .17 | T.  |    |    | .07 |     |    |    |    |    |    |     | .19  |      |     |    | T. |    |    |    |    |    |     |     | 0.76   |      |      |
| Ridgefield**.....                          | Hackensack..... |               |   | .18  |     | .10 |   |   | .12 | T.  |    |    | .06 |     |    |    |    |    |    |     | .25  |      |     |    |    |    |    |    |    |    |     |     | T.     | 0.74 |      |
| Somerville.....                            | Raritan.....    |               |   | .44  |     |     |   |   | .04 |     |    |    | .01 |     |    |    |    |    |    |     | .18  |      |     |    |    |    |    |    |    |    |     |     | .03    | 0.67 |      |
| South Orange.....                          | Rahway.....     |               |   | .06  |     |     |   |   | .10 |     |    |    | .05 |     |    |    |    |    |    |     | .48  |      |     |    |    |    |    |    |    |    |     |     | T.     | 0.69 |      |
| Woodcliff Lake.....                        | Hackensack..... |               |   | .07  |     |     |   |   | .10 |     |    |    |     |     |    |    |    |    |    |     | .19  |      |     |    |    |    |    |    |    |    |     |     | T.     | 0.36 |      |
| New York, N. Y***                          | Coast.....      |               |   | .21  |     | T.  |   |   | .14 |     |    |    | .06 |     |    |    |    |    |    | .05 | .01  | .27  |     |    |    |    |    |    |    |    |     |     | T.     | 0.74 |      |
| <i>The Southern Interior.</i>              |                 |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Bridgeton.....                             | Coast.....      |               |   | .45  |     |     |   |   | .18 |     |    |    | .25 |     |    |    |    |    |    |     | .05  |      |     |    |    |    |    |    |    |    |     |     |        | 0.98 |      |
| Burlington.....                            | Delaware.....   |               |   | .12  | .03 |     |   |   | .15 |     |    |    | .10 |     |    |    |    |    |    |     | .03  |      |     |    |    |    |    |    |    |    |     | .05 |        | 0.43 |      |
| Camp Dix   .....                           | Delaware.....   |               |   | .38  | .04 |     |   |   | .17 |     |    |    | .05 | .02 |    |    |    |    |    |     | .04  | .06  |     |    |    |    |    |    |    |    |     |     | .08    | 0.84 |      |
| Clayton.....                               | Maurice.....    |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Hammononton.....                           | Mullica.....    |               |   | .26  |     |     |   |   | .36 |     |    |    | .09 |     |    |    |    |    |    |     | .08  |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Hightstown.....                            | Raritan.....    |               |   | .20  |     | .22 |   |   | .12 |     |    |    | .20 |     |    |    |    |    |    |     | .10  |      |     |    |    |    |    |    |    |    |     | T.  |        | 0.79 |      |
| Imlaytown.....                             | Delaware.....   |               |   | .22  | .03 | .15 |   |   | .10 |     |    |    | .06 |     |    |    |    |    |    |     | .08  |      |     |    |    |    |    |    |    |    |     |     |        | 0.84 |      |
| Indian Mills.....                          | Mullica.....    |               |   | .35  |     |     |   |   | .12 |     |    |    | .10 |     |    |    |    |    |    |     | .07  |      |     |    |    |    |    |    |    |    |     |     | .02    | 0.66 |      |
| Lakewood.....                              | Metedeconk..... |               |   | .30  |     | .14 |   |   | .15 |     |    |    | .12 |     |    |    |    |    |    |     | .10  |      |     |    |    |    |    |    |    |    |     |     |        | 0.64 |      |
| Moorestown.....                            | Delaware.....   |               |   | .21  | .02 |     |   |   | .36 |     |    |    | .13 |     |    |    |    |    |    |     | .10  |      |     |    |    |    |    |    |    |    |     |     | T.     | 0.81 |      |
| Northfield.....                            | Coast.....      |               |   | .99  | .05 |     |   |   | .14 | T.  |    |    |     |     |    |    |    |    |    |     | .15  |      |     |    |    |    |    |    |    |    |     | .15 |        | 0.97 |      |
| Pleasantville.....                         | Coast.....      |               |   | .93  |     |     |   |   | .13 |     |    |    | T.  |     |    |    |    |    |    |     | .09  |      |     |    |    |    |    |    |    |    |     |     |        | 1.33 |      |
| Trenton***.....                            | Delaware.....   |               |   | .10  | †   | .05 |   |   | .08 |     |    |    | .05 |     |    |    |    |    |    |     | .06  |      |     |    |    |    |    |    |    |    |     |     |        | 1.15 |      |
| Tuckerton.....                             | Coast.....      |               |   | .75  |     |     |   |   | .18 |     |    |    |     |     |    |    |    |    |    |     | .16  |      |     |    |    |    |    |    |    |    |     |     |        | 0.34 |      |
| Vineland.....                              | Maurice.....    |               |   | .27  |     |     |   |   | .11 |     |    |    | T.  |     |    |    |    |    |    |     | .10  |      |     |    |    |    |    |    |    |    |     |     | T.     | 1.09 |      |
| Woodbine.....                              | Coast.....      |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Philadelphia, Pa...                        | Delaware.....   |               |   | .12  |     |     |   |   | .13 |     |    |    | .01 |     |    |    |    |    |    |     | .10  |      |     |    |    |    |    |    |    |    |     |     | .14    | 0.62 |      |
| <i>The Sea Coast.</i>                      |                 |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Asbury Park.....                           | Coast.....      |               |   | .20  |     |     |   |   | .12 |     |    |    | .06 |     |    |    |    |    |    |     | .08  |      |     |    |    |    |    |    |    |    |     |     |        |      |      |
| Atlantic City***                           | do.....         |               |   | 1.11 |     |     |   |   | .15 |     |    |    | .03 |     |    |    |    |    |    |     | .08  |      |     |    |    |    |    |    |    |    |     |     |        | 0.46 |      |
| Cape May City.....                         | do.....         |               |   | 1.32 | .01 |     |   |   | .16 |     |    |    | T.  |     |    |    |    |    |    |     | .09  |      |     |    |    |    |    |    |    |    |     |     | T.     | 1.37 |      |
| Long Branch**.....                         | do.....         |               |   | .06  |     | .05 |   |   | .13 |     |    |    |     |     |    |    |    |    |    |     | .09  |      |     |    |    |    |    |    |    |    |     |     |        | .04  |      |
| Sandy Hook***.....                         | do.....         |               |   | .15  |     |     |   |   | .10 |     |    |    | .15 |     |    |    |    |    |    |     | .07  |      |     |    |    |    |    |    |    |    |     |     |        | .02  |      |
|                                            |                 |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     | .09  |      |     |    |    |    |    |    |    |    |     |     |        | T.   | 0.33 |
|                                            |                 |               |   |      |     |     |   |   |     |     |    |    |     |     |    |    |    |    |    |     |      |      |     |    |    |    |    |    |    |    |     |     |        |      | 0.49 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.  
\*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement.  
\*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture.                                  |                                            | Sun-<br>shine. |       |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|--------------------------------------------|--------------------------------------------|----------------|-------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. |                |       |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. |                                            |                                            |                | Date. |
| Atlantic City.....    | 30.03         | 30.54    | 14    | 29.46   | 20    | 8                | 26              | s.         | 10                                         | 80                                         | 76             | 73    |
| Cape May City.....    | 30.06         | 30.57    | 14    | 29.60   | 3     | 10               | 36              | nw.        | 20                                         | 75                                         | 74             | ..... |
| Long Branch.....      |               |          |       |         |       |                  | 49              | s.         | 10                                         | .....                                      | .....          | ..... |
| Newark.....           |               |          |       |         |       |                  |                 |            |                                            | 69*                                        | 65†            | 68    |
| New York, N. Y.....   | 30.00         | 30.52    | 14    | 29.44   | 20    | 17               | 63              | nw.        | 20                                         | 72                                         | 63             | 63    |
| Philadelphia, Pa..... | 30.03         | 30.55    | 14    | 29.49   | 20    | 8                | 30              | s.         | 10                                         | 76                                         | 70             | 71    |
| Ridgefield.....       | 30.00         | 30.51    | 14    | 29.42   | 20    | .....            | .....           | .....      | .....                                      | .....                                      | .....          | ..... |
| Sandy Hook.....       | 30.00         | 30.53    | 14    | 29.41   | 20    | 15               | 50              | s.         | 10                                         | 77                                         | 74             | 69    |
| Trenton.....          | 30.00         | 30.52    | 14    | 29.45   | 20    | 10               | 44              | sw.        | 10                                         | 76                                         | 65             | 74    |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for October, 1921.

| Stations.                            | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean. |      |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------|------|------|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| The Highlands and Kittatinny Valley. |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Belvidere.....                       | Maximum... | 70 | 75 | 66 | 62 | 52 | 42 | 70 | 76 | 64 | 59 | 73 | 70 | 62 | 57 | 68 | 71 | 75 | 64 | 71 | 69 | 55 | 55 | 68 | 65 | 66 | 62 | 57 | 61 | 64 | 68 | 64    | 61   | 65.2 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 45 | 44 | 53 | 44 | 42 | 42 | 42 | 42 | 45 | 34 | 38 | 43 | 46 | 32 | 33 | 32 | 36 | 44 | 51 | 50 | 48 | 43 | 36 | 41 | 32 | 44 | 39 | 25 | 24 | 38 | 41    | 43   | 40.3 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Charlotteburg.....                   | Maximum... | 76 | 75 | 70 | 65 | 61 | 70 | 71 | 68 | 68 | 68 | 71 | 69 | 63 | 69 | 73 | 74 | 69 | 67 | 68 | 66 | 66 | 64 | 63 | 58 | 57 | 57 | 58 | 62 | 64 | 65 | 66    | 60   | 66.4 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 46 | 43 | 42 | 44 | 40 | 35 | 40 | 42 | 29 | 30 | 35 | 43 | 32 | 28 | 27 | 30 | 35 | 37 | 52 | 46 | 39 | 34 | 46 | 27 | 40 | 27 | 16 | 22 | 33 | 34 | 37    | 35.5 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Dover.....                           | Maximum... | 75 | 75 | 70 | 63 | 60 | 69 | 74 | 61 | 61 | 73 | 72 | 64 | 59 | 68 | 73 | 73 | 65 | 65 | 67 | 61 | 54 | 66 | 62 | 60 | 58 | 51 | 59 | 64 | 63 | 66 | 64    | 61   | 64.9 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 43 | 46 | 50 | 45 | 40 | 45 | 41 | 40 | 35 | 35 | 41 | 40 | 33 | 24 | 32 | 36 | 43 | 44 | 52 | 43 | 40 | 40 | 41 | 31 | 37 | 26 | 27 | 38 | 40 | 42 | 38.8  |      |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Layton.....                          | Maximum... | 70 | 77 | 66 | 64 | 61 | 72 | 75 | 67 | 56 | 74 | 72 | 57 | 55 | 69 | 74 | 74 | 66 | 68 | 67 | 70 | 55 | 68 | 62 | 60 | 56 | 58 | 59 | 64 | 68 | 66 | 61    | 65.5 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 42 | 40 | 45 | 41 | 38 | 38 | 50 | 42 | 29 | 32 | 32 | 40 | 42 | 35 | 26 | 29 | 30 | 32 | 40 | 49 | 48 | 45 | 26 | 42 | 27 | 42 | 21 | 18 | 26 | 32 | 38    | 36.4 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Newton.....                          | Maximum... | 68 | 73 | 63 | 61 | 59 | 70 | 75 | 64 | 64 | 72 | 71 | 60 | 53 | 65 | 65 | 65 | 72 | 66 | 59 | 49 | 65 | 60 | 60 | 55 | 50 | 58 | 60 | 65 | 60 | 57 | 62.6  |      |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 48 | 47 | 53 | 46 | 40 | 44 | 54 | 43 | 34 | 37 | 44 | 43 | 34 | 36 | 36 | 36 | 39 | 39 | 52 | 45 | 36 | 33 | 47 | 34 | 43 | 28 | 26 | 34 | 41 | 42 | 43    | 40.9 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Phillipsburg.....                    | Maximum... | 73 | 78 | 65 | 66 | 62 | 70 | 77 | 67 | 56 | 75 | 76 | 60 | 60 | 70 | 76 | 78 | 66 | 69 | 69 | 60 | 49 | 67 | 64 | 61 | 57 | 56 | 64 | 65 | 69 | 65 | 68    | 66.6 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 41 | 41 | 48 | 45 | 47 | 42 | 38 | 45 | 33 | 33 | 39 | 45 | 45 | 30 | 36 | 31 | 40 | 41 | 41 | 51 | 47 | 40 | 35 | 48 | 30 | 43 | 24 | 20 | 25 | 35 | 38    | 38.3 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| The Red Sandstone Plain.             |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Bergen Point.....                    | Maximum... | 70 | 74 | 71 | 65 | 61 | 78 | 65 | 59 | 77 | 72 | 62 | 62 | 55 | 66 | 70 | 71 | 69 | 67 | 63 | 61 | 67 | 62 | 60 | 55 | 50 | 34 | 30 | 56 | 61 | 56 | 62    | 61   | 64.1 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 50 | 51 | 56 | 52 | 48 | 47 | 47 | 47 | 37 | 45 | 45 | 46 | 39 | 37 | 74 | 75 | 66 | 68 | 69 | 49 | 57 | 70 | 70 | 67 | 58 | 57 | 61 | 68 | 63 | 64 | 57    | 66.2 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Boonton§§.....                       | Maximum... | 73 | 76 | 65 | 67 | 63 | 70 | 76 | 66 | 58 | 76 | 75 | 62 | 58 | 70 | 74 | 75 | 66 | 68 | 69 | 49 | 57 | 70 | 70 | 67 | 58 | 57 | 61 | 68 | 63 | 64 | 57    | 66.2 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 43 | 42 | 47 | 43 | 45 | 40 | 39 | 51 | 32 | 34 | 40 | 48 | 30 | 38 | 29 | 35 | 42 | 41 | 48 | 49 | 46 | 35 | 45 | 30 | 36 | 28 | 19 | 25 | 27 | 38 | 39    | 38.2 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Elizabeth.....                       | Maximum... | 73 | 80 | 71 | 68 | 65 | 72 | 81 | 70 | 60 | 80 | 77 | 65 | 59 | 72 | 76 | 73 | 63 | 74 | 73 | 62 | 55 | 70 | 67 | 63 | 60 | 52 | 59 | 65 | 67 | 65 | 61    | 67.4 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 45 | 45 | 51 | 47 | 45 | 46 | 44 | 49 | 35 | 38 | 45 | 47 | 43 | 34 | 34 | 40 | 47 | 44 | 54 | 50 | 43 | 36 | 44 | 33 | 46 | 32 | 26 | 31 | 50 | 43 | 44    | 41.6 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Flemington.....                      | Maximum... | 76 | 78 | 70 | 65 | 67 | 73 | 77 | 68 | 60 | 76 | 77 | 67 | 60 | 72 | 77 | 78 | 69 | 71 | 71 | 53 | 49 | 44 | 38 | 50 | 33 | 42 | 29 | 23 | 31 | 41 | 44    | 44   | 41.4 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 48 | 44 | 50 | 48 | 45 | 45 | 42 | 47 | 35 | 36 | 44 | 49 | 35 | 32 | 32 | 40 | 47 | 42 | 54 | 47 | 43 | 51 | 58 | 52 | 69 | 64 | 61 | 56 | 53 | 58 | 63    | 58   | 64.1 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Highwood.....                        | Maximum... | 69 | 75 | 66 | 64 | 60 | 69 | 74 | 65 | 55 | 74 | 73 | 62 | 53 | 74 | 69 | 63 | 70 | 74 | 70 | 63 | 70 | 65 | 53 | 69 | 67 | 62 | 59 | 53 | 58 | 61 | 58    | 62   | 61   | 65.9 |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 45 | 46 | 50 | 46 | 44 | 45 | 42 | 45 | 35 | 37 | 43 | 45 | 33 | 31 | 33 | 33 | 47 | 42 | 54 | 50 | 51 | 58 | 49 | 47 | 42 | 51 | 51 | 43 | 47 | 36 | 34    | 37   | 44   | 46.7 |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Jersey City.....                     | Maximum... | 73 | 78 | 70 | 68 | 63 | 71 | 79 | 67 | 58 | 77 | 77 | 62 | 55 | 70 | 74 | 70 | 63 | 70 | 70 | 65 | 53 | 69 | 67 | 62 | 59 | 53 | 58 | 61 | 58 | 62 | 61    | 61   | 65.9 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 52 | 53 | 59 | 52 | 47 | 50 | 52 | 46 | 40 | 46 | 52 | 48 | 39 | 41 | 44 | 48 | 50 | 44 | 49 | 50 | 58 | 47 | 44 | 42 | 51 | 39 | 42 | 33 | 32 | 34 | 43    | 44   | 47   | 45.3 |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Kearny.....                          | Maximum... | 72 | 78 | 70 | 65 | 63 | 71 | 80 | 65 | 60 | 80 | 76 | 62 | 56 | 70 | 76 | 75 | 65 | 70 | 74 | 64 | 69 | 69 | 58 | 53 | 66 | 61 | 64 | 57 | 49 | 56 | 62    | 59   | 63   | 57   | 61.6 |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 52 | 53 | 56 | 49 | 47 | 49 | 49 | 45 | 40 | 49 | 45 | 38 | 43 | 50 | 44 | 49 | 50 | 58 | 47 | 44 | 47 | 43 | 38 | 48 | 34 | 44 | 29 | 29 | 35 | 41 | 43    | 45   | 41   | 43.5 |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Lambertville.....                    | Maximum... | 69 | 76 | 66 | 66 | 60 | 69 | 75 | 62 | 59 | 73 | 70 | 64 | 52 | 63 | 70 | 70 | 64 | 69 | 69 | 58 | 53 | 66 | 61 | 64 | 57 | 49 | 56 | 62 | 59 | 63 | 57    | 63.6 |      |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 46 | 42 | 55 | 42 | 43 | 44 | 45 | 44 | 33 | 39 | 42 | 44 | 34 | 37 | 41 | 41 | 42 | 45 | 58 | 47 | 43 | 38 | 48 | 34 | 44 | 29 | 29 | 35 | 41 | 43 | 45    | 41   | 43.5 |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Little Falls§§.....                  | Maximum... | 73 | 79 | 67 | 68 | 63 | 72 | 79 | 65 | 57 | 78 | 76 | 60 | 58 | 71 | 77 | 78 | 65 | 71 | 77 | 57 | 53 | 71 | 77 | 57 | 53 | 70 | 67 | 62 | 59 | 56 | 61    | 67   | 64   | 67   | 60   | 66.8 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      | Minimum... | 44 | 43 | 48 | 48 | 46 | 46 | 42 | 36 | 36 | 42 | 47 | 34 | 33 | 32 | 24 | 44 | 43 | 50 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50    | 44   | 35   | 50   | 44   | 35   | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 | 50 | 44 | 35 |

\* , b , c , etc., indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged



JAN 1 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist,

VOL. XXVI. TRENTON, N. J., NOVEMBER, 1921. No. 11.

## GENERAL SUMMARY.

There is a normal tendency toward a reaction from the pleasant conditions of autumn weather to more unpleasant occurrences of driving rain, cloudiness and the general forerunner indications of winter, during the latter half of November in New Jersey. Such was the record for 1921. Warmth, quantity and frequency of rain, and cloudiness, were slightly in excess of normal, although these variations were not great. The rain was practically the same as in November of last year. There has been no warmer November since 1912 and 1913, both of which exceeded this year to a considerable extent.

Over the northern highlands and the middle-southeastern coast there was a notable excess of rain, but it was correspondingly dry across the central portion of the State. The amount of snowfall was hardly worth mentioning.

Storm warnings were displayed along the coast on the 4th, 7th, 8th, 10th, and 22d.

## TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 37 stations was 44.3°, which was 1.2° above the normal. The highest temperature was 79° at Camp Dix, Hightstown, and Moorestown on the 18th, and the lowest, 18°, at Indian Mills on the 6th and Charlotteburg on the 11th and 26th. The greatest daily range of temperature was 34°, and occurred at several stations on various dates. The highest monthly mean was 49.3° at Cape May City, and the lowest, 40.6° at Layton. The temperature departure from the normal for the year 1921 to date, by sections, is: The Highlands, +2.9°; Red Sandstone Plain, +2.9°; Southern Interior, +3.0°; Sea Coast, +2.5°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 40 stations, was 4.26 inches, which was 1.17 inches above the normal. The average total snowfall was 0.1 inch, which was 1.6 inches below the normal. The greatest monthly precipitation was 6.69 inches at Atlantic City, and the least, 2.79 inches at Long Branch. The greatest amount of precipitation in any 24 consecutive hours was 2.04 inches at Atlantic City on the 29th. The mean of the number of days on which .01 inch or more of precipitation fell was 14, or 6 more than the normal.

The precipitation accumulated departure from the normal for the year 1921 to date, by sections, is: The Highlands, -3.18 inches; Red Sandstone Plain, -6.33 inches; Southern Interior, -6.66 inches; Sea Coast, -8.77 inches.

## WIND.

The prevailing direction was from the northeast. The wind movement was 12 miles per hour, which was one mile below the normal. The highest velocity, sustained for 5 consecutive

minutes, was 63 miles per hour from the northeast at Long Branch on the 28th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 9, which was 3 less than the normal; partly cloudy, 6, or 3 less than the normal; cloudy, 15, or 6 more than the normal. The per cent of possible sunshine was 42, which was 16 per cent below the normal.

## MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.07 inches, which was 0.03 inch below the normal. The highest reading was 30.50 inches at Ridgefield and Trenton on the 8th, and the lowest, 29.51 inches at Trenton on the 1st.

The mean stage of the Delaware River at Phillipsburg was 3.3 feet, and the highest stage, 16.4 feet on the 29th. At Trenton the mean daily stage was 1.7 feet, which was normal. The highest stage was 9.9 feet on the 30th, and the lowest, 0.4 foot on the 1st and 3d.

The first killing frosts of autumn did not occur along the coast until the 6th and in some portions on the 13th, except in the extreme southern portion of Cape May County where freezing weather has not yet occurred. Sleet in light amounts was observed in northern sections on the 23d and 24th. Dense fog occurred on the 2d, 17th, 18th, 19th, 24th, 26th, and 27th. Thunderstorms occurred in some portions of the State on the 1st, 2d, and 8th. Solar halos were observed on the 4th, 6th, 11th, and 25th, and lunar halos on the 8th, 11th and 25th. The aurora was observed on the 6th and 8th. Hail fell at Atlantic City on the 2d,

## COMPARATIVE DATA FOR NOVEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 44.8         | 76       | 18      | 4.53           | 7.90      | 2.72   | .....        | .....          | .....   | .....                  |
| 1886..... | 44.5         | 73       | 17      | 4.49           | 6.24      | 3.45   | .....        | .....          | .....   | .....                  |
| 1887..... | 41.5         | 72       | 13      | 1.94           | 2.60      | 0.95   | .....        | .....          | .....   | .....                  |
| 1888..... | 45.8         | 77       | 8       | 3.97           | 5.41      | 2.66   | .....        | .....          | .....   | 6                      |
| 1889..... | 45.7         | 69       | 13      | 8.48           | 11.45     | 4.70   | .....        | .....          | 13      | 10                     |
| 1890..... | 43.8         | 74       | 11      | 0.82           | 1.10      | .....  | .....        | .....          | 13      | 13                     |
| 1891..... | 42.2         | 70       | 6       | 2.39           | 3.47      | 0.38   | 13           | 12             | 5       | 8                      |
| 1892..... | 41.9         | 71       | 12      | 7.29           | 9.49      | 1.54   | 12           | 10             | 8       | 4                      |
| 1893..... | 41.8         | 70       | 11      | 3.48           | 4.53      | 4.74   | 8            | 9              | 13      | 11                     |
| 1894..... | 40.3         | 76       | 11      | 3.34           | 5.12      | 2.19   | 10           | 11             | 9       | 7                      |
| 1895..... | 45.7         | 80       | 12      | 3.17           | 5.10      | 1.77   | 13           | 7              | 10      | 10                     |
| 1896..... | 48.2         | 78       | 12      | 3.05           | 5.68      | 1.56   | 12           | 7              | 11      | 10                     |
| 1897..... | 43.8         | 74       | 10      | 4.59           | 5.95      | 1.37   | 9            | 9              | 12      | 8                      |
| 1898..... | 42.4         | 70       | 11      | 6.76           | 9.07      | 2.42   | 8            | 11             | 11      | 12                     |
| 1899..... | 44.0         | 71       | 17      | 2.29           | 4.32      | 3.83   | 10           | 9              | 11      | 14                     |
| 1900..... | 47.5         | 79       | 15      | 3.43           | 5.54      | 0.72   | 15           | 8              | 7       | 7                      |
| 1901..... | 38.5         | 69       | 10      | 2.38           | 4.23      | 1.82   | 9            | 10             | 11      | 9                      |
| 1902..... | 49.3         | 80       | 20      | 2.20           | 4.17      | 1.18   | 12           | 9              | 9       | 6                      |
| 1903..... | 39.9         | 79       | 3       | 1.26           | 2.03      | 0.87   | 10           | 11             | 9       | 8                      |
| 1904..... | 40.2         | 69       | 6       | 2.18           | 3.40      | 0.75   | 16           | 8              | 6       | 6                      |
| 1905..... | 42.1         | 70       | 6       | 1.84           | 2.86      | 1.30   | 12           | 10             | 8       | 6                      |
| 1906..... | 43.6         | 70       | 8       | 1.61           | 2.52      | 0.54   | 12           | 10             | 8       | 6                      |
| 1907..... | 43.5         | 68       | 13      | 5.65           | 6.95      | 1.06   | 16           | 7              | 7       | 6                      |
| 1908..... | 43.1         | 72       | 2       | 0.96           | 1.29      | 4.19   | 10           | 8              | 12      | 13                     |
| 1909..... | 46.4         | 80       | 12      | 2.36           | 4.33      | 0.35   | 14           | 8              | 8       | 4                      |
| 1910..... | 40.4         | 71       | 13      | 3.79           | 5.73      | 1.32   | 13           | 8              | 9       | 8                      |
| 1911..... | 41.3         | 73       | 13      | 5.17           | 6.50      | 1.63   | 5            | 13             | 12      | 9                      |
| 1912..... | 45.3         | 76       | 11      | 3.43           | 8.12      | 3.17   | 8            | 11             | 11      | 10                     |
| 1913..... | 46.2         | 77       | 19      | 2.71           | 4.89      | 2.02   | 15           | 8              | 7       | 6                      |
| 1914..... | 43.3         | 80       | 6       | 2.60           | 4.81      | 1.00   | 14           | 7              | 9       | 7                      |
| 1915..... | 44.0         | 75       | 16      | 1.69           | 3.11      | 1.21   | 16           | 8              | 6       | 6                      |
| 1916..... | 43.3         | 75       | 11      | 2.11           | 3.81      | 0.96   | 14           | 8              | 8       | 8                      |
| 1917..... | 39.8         | 68       | 2       | 0.56           | 1.15      | 0.80   | 16           | 5              | 9       | 8                      |
| 1918..... | 43.9         | 71       | 10      | 1.87           | 3.05      | 0.78   | 19           | 5              | 6       | 3                      |
| 1919..... | 43.7         | 76       | 10      | 3.74           | 6.18      | 0.49   | 14           | 6              | 10      | 7                      |
| 1920..... | 43.0         | 74       | 11      | 1.41           | 7.90      | 1.98   | 13           | 7              | 10      | 11                     |
| 1921..... | 44.3         | 79       | 18      | 4.26           | 6.69      | 2.14   | 9            | 6              | 15      | 10                     |
|           |              |          |         |                |           | 2.79   | 9            | 6              | 15      | 14                     |



## Climatological Data for November, 1921.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 30                       | 42.4                          | +1.3                       | 75       | 18    | 24      | 13    | 33                        | 5.21   | +1.97                      | 1.30                  | 0.5                        | 14                             | 16     | 0           | 14                            | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 29                       | 41.4 <sup>b</sup>             | +1.3                       | 75       | 19    | 18      | 11†   | 33                        | 4.79   | +1.27                      | 1.09                  | 1.6                        | 12                             | .....  | .....       | .....                         | w.         | George S. Briggs.         |
| Culvers Lake†.....                          | Sussex.....     | 848              | 20                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 37                       | 41.4                          | +1.3                       | 74       | 18    | 22      | 11    | 30                        | 6.33   | +2.69                      | 2.04                  | 0.2                        | 12                             | 2      | 14          | 14                            | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 20                       | 40.6 <sup>a</sup>             | +1.3                       | 75       | 18    | 20      | 11    | 34                        | 5.17   | +2.68                      | 1.16                  | 0.5                        | 16                             | 5      | 4           | 21                            | e.         | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 38                       | 41.0 <sup>b</sup>             | +0.5                       | 72       | 18    | 24      | 13    | 30 <sup>a</sup>           | 4.60   | +1.47                      | 1.20                  | T.                         | 15                             | 7      | 3           | 20                            | ne.        | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | ne.        | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 27                       | 41.7 <sup>b</sup>             | +0.6                       | 76       | 18    | 20      | 11    | 28                        | 4.25   | +1.00                      | 1.25                  | 0.3                        | 16                             | .....  | .....       | .....                         | ne.        | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 41.4                          | +1.0                       | 76       | 18    | 18      | 11†   | 34                        | 5.06   | +1.85                      | 2.04                  | 0.5                        | 14                             | 8      | 5           | 17                            | ne.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point†.....                          | Hudson.....     | 37               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 31                       | 41.2 <sup>b</sup>             | -0.2                       | 76       | 18    | 19      | 11    | 34                        | 4.20   | +0.63                      | 0.94                  | T.                         | 13                             | 10     | 4           | 16                            | nw.        | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 17                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.56   | +2.61                      | 1.23                  | 0.2                        | 18                             | 8      | 5           | 17                            | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 42                       | 44.6                          | +1.1                       | 77       | 18    | 26      | 11    | 26                        | 3.92   | +0.67                      | 0.90                  | T.                         | 16                             | 8      | 9           | 13                            | ne.        | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 35                       | 41.6                          | +1.7                       | 78       | 18    | 25      | 11    | 30                        | 4.43   | +1.31                      | 1.01                  | T.                         | 16                             | 11     | 5           | 14                            | w.         | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 33                       | 42.4 <sup>a</sup>             | +0.4                       | 71       | 19    | 24      | 11    | 25                        | 3.97   | +0.47                      | 0.85                  | T.                         | 15                             | 6      | 9           | 15                            | nw.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 45.4                          | +1.4                       | 70       | 19    | 30      | 13    | 23                        | 4.16   | +0.97                      | 0.96                  | T.                         | 18                             | 7      | 8           | 15                            | nw.        | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 2                        | 45.1                          | .....                      | 76       | 19    | 29      | 13    | 26                        | 3.49   | .....                      | .....                 | 0                          | 10                             | 5      | 10          | 15                            | ne.        | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 300              | 34                       | 42.4                          | -0.8                       | 71       | 18†   | 26      | 11    | 27                        | 4.37   | +1.16                      | 0.81                  | T.                         | 16                             | 10     | 9           | 11                            | ne.        | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 18                       | 42.7                          | +0.5                       | 77       | 18    | 23      | 11    | 32                        | 4.91   | +2.01                      | 0.79                  | T.                         | 18                             | 9      | 5           | 16                            | e.         | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 79                       | 44.1                          | +0.5                       | 75       | 19    | 29      | 13    | 27                        | 3.53   | +0.06                      | 0.55                  | 0.8                        | 14                             | 7      | 9           | 14                            | nw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 68                       | 44.5                          | +1.1                       | 75       | 18†   | 25      | 13    | 26                        | 3.55   | +0.08                      | 0.64                  | T.                         | 15                             | 12     | 4           | 14                            | sw.        | N. J. Experiment Station. |
| New Milford†.....                           | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 80               | 50                       | 45.4 <sup>a</sup>             | +1.9                       | 76       | 19    | 28      | 11    | 25                        | 4.05   | +0.88                      | 0.87                  | T.                         | 12                             | 4      | 0           | 26                            | ne.        | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 110              | 33                       | 42.5                          | 0.0                        | 76       | 19    | 20      | 11    | 30                        | 3.74   | +0.37                      | 0.87                  | 0.5                        | 15                             | 7      | 9           | 14                            | ne.        | E. D. Pearson.            |
| Ridgefield†.....                            | Bergen.....     | 70               | 6                        | 42.0                          | .....                      | 74       | 19    | 27      | 13†   | 26                        | 3.58   | .....                      | 0.92                  | T.                         | 12                             | 6      | 10          | 14                            | nw.        | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 38                       | 45.2 <sup>d</sup>             | +2.8                       | 71       | 18    | .....   | ..... | 23 <sup>a</sup>           | .....  | .....                      | .....                 | 0                          | .....                          | 7      | 11          | 12                            | nw.        | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 200              | 51                       | 43.0                          | +1.2                       | 73       | 19    | 26      | 11    | 28                        | 4.17   | +0.87                      | 0.90                  | T.                         | 15                             | 11     | 6           | 13                            | w.         | Wm. H. Meeder.            |
| Woodcliff Lake†.....                        | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| New York, N. Y.....                         | .....           | 365              | 51                       | 45.0                          | +1.0                       | 71       | 19    | 30      | 13    | 24                        | 3.48   | +0.04                      | 0.90                  | T.                         | 15                             | 3      | 10          | 17                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 43.7                          | +0.9                       | 78       | 18    | 19      | 11    | 34                        | 4.11   | +0.93                      | 1.23                  | 0.1                        | 15                             | 8      | 7           | 15                            | ne.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton.....                              | Cumberland..... | 30               | 40                       | 48.1                          | +2.6                       | 77       | 18    | 27      | 11    | 29                        | 3.97   | +1.97                      | 1.00                  | 0                          | 12                             | 15     | 2           | 13                            | ne.        | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 35                       | 45.3                          | +0.7                       | 77       | 18    | 26      | 11    | 27                        | 3.99   | +0.89                      | 0.78                  | 0                          | 13                             | 13     | 5           | 12                            | w.         | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 3                        | 44.9                          | .....                      | 79       | 18    | 24      | 13    | 29                        | 3.84   | .....                      | 0.75                  | T.                         | 16                             | 4      | 5           | 21                            | ne.        | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 28                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Marvin E. Porch.          |
| Hammononton.....                            | Atlantic.....   | 103              | 20                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.97   | +0.65                      | 0.91                  | 0                          | 12                             | 9      | 6           | 15                            | ne.        | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 29                       | 43.8 <sup>a</sup>             | +0.5                       | 79       | 18    | 23      | 11    | 28                        | 3.38   | +0.07                      | 0.72                  | 0                          | 15                             | 15     | 5           | 10                            | nw.        | E. H. Savage, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 33                       | 44.3                          | +1.5                       | 76       | 18    | 20      | 11†   | 32                        | 3.56   | +0.36                      | 0.68                  | 0                          | 18                             | 12     | 6           | 12                            | sw.        | Wm. R. Hendrickson.       |
| Indian Mills†.....                          | Burlington..... | 76               | 32                       | 45.0                          | +2.1                       | 78       | 18    | 18      | 6     | 34                        | 3.16   | +0.08                      | 0.66                  | 0                          | 12                             | 8      | 6           | 16                            | nw.        | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 17                       | 44.8                          | +2.0                       | 74       | 18    | 24      | 11    | 27                        | 3.77   | +1.29                      | 0.65                  | 0                          | 14                             | 11     | 2           | 17                            | ne.        | R. W. Holman.             |
| Moorestown†.....                            | Burlington..... | 75               | 58                       | 45.8 <sup>a</sup>             | +2.6                       | 79       | 18    | 26      | 6†    | 32                        | 4.03   | +0.78                      | 0.67                  | 0                          | 10                             | 11     | 5           | 14                            | s.         | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 14                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.87   | +3.49                      | 1.14                  | 0                          | 13                             | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville†.....                         | Atlantic.....   | 26               | 23                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.83   | +3.11                      | 1.10                  | 0                          | 13                             | 16     | 0           | 14                            | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 49                       | 44.6                          | +0.2                       | 76       | 18    | 27      | 13    | 28                        | 2.83   | -0.60                      | 0.70                  | T.                         | 15                             | 4      | 9           | 17                            | w.         | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 28                       | 46.5                          | +2.4                       | 76       | 2     | 23      | 6     | 34                        | 5.57   | +2.49                      | 0.96                  | 0                          | 12                             | 8      | 8           | 14                            | nw.        | Frank R. Austin.          |
| Vineyard.....                               | Cumberland..... | 109              | 52                       | 48.0 <sup>a</sup>             | +3.9                       | 78       | 18    | 27      | 16    | 28                        | 5.51   | +2.40                      | 1.29                  | 0                          | 12                             | 11     | 5           | 14                            | n          | H. C. Himes.              |
| Woodbine.....                               | Cape May.....   | 43               | 28                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | W. I. Zechman.            |
| Philadelphia, Pa.....                       | .....           | 117              | 51                       | 46.8                          | +1.9                       | 75       | 19    | 32      | 13    | 22                        | 3.69   | +0.63                      | 0.97                  | T.                         | 16                             | 7      | 7           | 16                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 45.6                          | +1.8                       | 79       | 18    | 18      | 6     | 34                        | 4.23   | +1.31                      | 1.29                  | 0                          | 13                             | 10     | 5           | 15                            | ne.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 32                       | 46.7                          | +1.9                       | 67       | 20    | 28      | 13†   | 25                        | 3.52   | +0.60                      | 0.72                  | 0                          | 14                             | 9      | 9           | 12                            | ne.        | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 48.2                          | +2.7                       | 66       | 7     | 29      | 13    | 22                        | 6.69   | +3.46                      | 1.71                  | 0                          | 13                             | 10     | 6           | 14                            | nw.        | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 37                       | 49.3                          | +1.8                       | 65       | 7     | 34      | 13    | 23                        | 3.22   | 0.00                       | 0.86                  | 0                          | 15                             | 8      | 8           | 14                            | nw.        | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 14                       | 42.8                          | -1.4                       | 63       | 20    | 24      | 13    | 21                        | 2.79   | -0.73                      | 0.72                  | 0.1                        | 13                             | 6      | 7           | 17                            | uw.        | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 23                       | 45.6                          | +1.0                       | 69       | 18    | 32      | 13    | 20                        | 2.95   | -0.24                      | 0.55                  | T.                         | 15                             | 6      | 10          | 14                            | w.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 46.5                          | +1.2                       | 69       | 18    | 24      | 13    | 25                        | 3.83   | +0.62                      | 1.71                  | T.                         | 14                             | 8      | 8           | 14                            | nw.        |                           |
| For the State.....                          |                 |                  |                          | 44.3                          | +1.2                       | 79       | 18    | 18      | 6†    | 34                        | 4.26   | +1.17                      | 2.04                  | 0.1                        | 14                             | 9      | 6           | 15                            | ne.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for November, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    | Total. |
|--------------------------------------------|-----------------|---------------|------|-----|----|-----|---|---|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|----|--------|
|                                            |                 | 1             | 2    | 3   | 4  | 5   | 6 | 7 | 8 | 9   | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20   | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28   | 29   | 30  | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Belvidere.....                             | Delaware.....   | .28           | .15  |     |    |     |   |   |   | .41 | .10  |     | *   |     | *   |     |     | *   |     |     | 1.25 | .06 |     |     | .12 |     | .21 | .09 | 1.30 | 1.24 |     |    | 5.21   |
| Charlotteburg.....                         | Passaic.....    | 1.09          |      |     |    |     |   |   |   | .38 |      |     | *   |     | .16 | .27 |     | .51 |     | T.  | .65  |     |     |     | .19 |     | *   | *   | 1.10 | .44  |     |    | 4.79   |
| Culvers Lake.....                          | Delaware.....   |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Dover.....                                 | Passaic.....    | .44           |      |     |    |     |   |   |   | .33 |      |     | .06 |     | .28 |     |     | .57 |     |     | .72  | .15 |     |     | .13 |     | .06 | .55 | 1.00 | 2.04 |     |    | 6.33   |
| Layton.....                                | Delaware.....   | .52           |      | .04 |    |     |   |   |   | .30 | .06  |     | .20 |     | .12 |     |     | .23 | .06 |     | .68  | .04 |     |     | .02 | .24 |     | .08 | .70  | 1.16 | .72 |    | 5.17   |
| Newton.....                                | Delaware.....   | .34           | .01  | T.  | T. |     |   |   |   | .38 | .05  |     | .07 |     | .08 | .13 |     | .32 | T.  |     | .73  | .07 |     |     | .12 | T.  | .11 | .20 | 1.20 | .79  |     |    | 4.60   |
| Phillipsburg.....                          | do.....         |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Sussex.....                                | Hudson.....     | .27           | .23  |     | T. | .04 |   |   |   | T.  | .06  |     | .12 |     | .03 |     |     | .48 | .05 | T.  | .66  | .06 |     |     | T.  | .08 | .10 | .07 | .38  | 1.25 | .37 |    | 4.25   |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Bergen Point.....                          | Coast.....      |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Boonton.....                               | Passaic.....    | .08           | .51  |     |    | T.  |   |   |   | T.  | .29  |     | .04 |     | T.  | .22 |     | .64 | .01 | T.  | .64  | .11 | T.  |     | T.  | .12 |     | .14 | .46  | .94  | T.  |    | 4.20   |
| Chatham.....                               | do.....         | .06           | .48  | T.  |    | T.  |   |   |   | T.  | .29  | .04 | .02 | .12 | .02 | .28 |     | .95 | .28 |     | .75  | .28 | .01 |     | T.  | .02 | .15 | .25 | .60  | 1.23 | .01 |    | 5.56   |
| Elizabeth.....                             | Coast.....      | .34           |      |     |    |     |   |   |   | .33 |      |     | .17 |     | T.  | .31 |     | .90 | T.  |     | .53  | .13 |     | T.  | .06 | .11 | .18 | .14 | .47  | .23  |     |    | 3.92   |
| Flemington.....                            | Raritan.....    | .24           | .02  |     |    | T.  |   |   |   | .21 | .07  | .11 |     | .15 | .10 |     | .65 |     | .75 | .14 |      |     |     | .13 | .04 | .17 | .08 | .56 | 1.01 |      |     |    | 4.43   |
| Highwood.....                              | Hackensack..... | .54           | T.   |     |    |     |   |   |   | .26 | .10  |     | .05 |     | .04 | T.  |     | .84 | .01 |     | .63  | .20 | .01 | T.  | .19 |     | .15 | .13 | .72  | .10  |     |    | 3.97   |
| Jersey City.....                           | Coast.....      | .33           | .01  |     | T. |     |   |   |   | .30 | .10  |     | .06 | T.  | .30 | .04 | .04 | .96 | .01 |     | .56  | .15 |     | .01 | .19 |     | .20 | .17 | .68  | .05  | T.  |    | 4.16   |
| Kearny.....                                | Coast.....      | .52           |      |     | T. |     |   |   |   | .26 |      |     | T.  |     | .50 |     |     | .45 |     |     | .60  | .10 |     | T.  | .15 |     | *   | *   | *    | 1.06 |     |    | 3.49   |
| Lambertville.....                          | Delaware.....   | .20           | .23  |     |    |     |   |   |   | .22 | .06  |     | .27 |     | .16 | .05 |     | .65 |     | .02 | .63  | .12 |     |     | .22 |     | .16 | .15 | .42  | .81  |     |    | 4.37   |
| Little Falls.....                          | Passaic.....    | .06           | .69  |     |    |     |   |   |   | .03 | .30  |     | .08 | .02 | .05 | .22 |     | .79 | .03 |     | .66  | .30 | .02 |     | .07 | .09 |     | .18 | .63  | .69  |     |    | 4.91   |
| Newark**.....                              | Coast.....      | .43           |      |     |    | T.  |   |   |   | .55 |      |     | .09 | .01 | .41 |     | .54 | .37 |     |     | .06  | .08 |     | T.  | .18 |     | .13 | .37 | .27  | .04  |     |    | 3.53   |
| New Brunswick.....                         | Raritan.....    | .14           | .02  |     |    | T.  |   |   |   | .20 | .11  |     | .10 |     | .24 | .05 |     | .64 |     |     | .63  | .09 |     |     | .12 | T.  | .16 | .14 | .31  | .60  |     |    | 3.55   |
| New Milford.....                           | Hackensack..... |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Paterson.....                              | Passaic.....    | .87           |      |     |    | T.  |   |   |   | .24 | .14  |     | .10 | .24 | T.  |     |     | .80 |     |     | .30  | .14 |     | T.  | .12 | T.  | .10 | .12 | .80  | .08  |     |    | 4.05   |
| Plainfield.....                            | Raritan.....    | .32           |      |     | T. |     |   |   |   | .20 | .03  |     | .13 |     | .24 | .05 |     | .87 | .01 |     | .50  | .16 |     | T.  | .15 |     | .06 | .14 | .42  | .46  |     |    | 3.74   |
| Ridgefield**.....                          | Hackensack..... | .28           | T.   | T.  | T. |     |   |   |   | *   | .32  |     | .05 |     | .31 |     |     | .92 | .02 |     | .49  | .17 |     |     | .18 |     |     |     | .52  | .32  |     |    | 3.58   |
| Somerville.....                            | Raritan.....    | .30           |      |     |    |     |   |   |   | .06 | 1.41 | .02 |     | .08 |     | \$  |     | \$  |     | \$  | \$   | .03 |     |     |     |     |     |     | .06  |      |     |    | \$     |
| South Orange.....                          | Rahway.....     | .58           | T.   |     | T. | T.  |   |   |   | .23 | .03  |     | .15 |     | .33 | T.  |     | .90 | .02 |     | .45  | .15 |     | .01 | .15 |     | .19 | .20 | .59  | .19  |     |    | 4.17   |
| Woodcliff Lake.....                        | Hackensack..... |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| New York, N. Y***                          | Coast.....      | .27           |      |     | T. |     |   |   |   | .37 | .07  |     | .03 | T.  | .35 |     | .11 | .79 |     |     | .47  | .16 |     | .01 | .17 |     | .16 | .19 | .31  | .02  |     |    | 3.48   |
| <i>The Southern Interior.</i>              |                 |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Bridgeton.....                             | Coast.....      | .18           | .20  |     |    |     |   |   |   | .30 |      |     | .43 |     | .28 |     |     | .53 |     |     | .95  | .05 |     |     | .16 |     | .08 | .46 | .35  |      |     |    | 3.97   |
| Burlington.....                            | Delaware.....   | .18           | T.   | T.  |    |     |   |   |   | .25 | .10  |     | .31 | T.  | .18 | T.  |     | .78 |     |     | .66  | .09 |     |     | .40 |     | .08 | .04 | .39  | .53  |     |    | 3.99   |
| Camp Dix.....                              | Delaware.....   | .22           | .04  |     |    |     |   |   |   | .06 | .30  |     | .33 | .12 | .27 |     |     | .70 | .02 |     | .75  | .18 |     |     | .20 |     | .09 | .26 | .28  | .02  |     |    | 3.84   |
| Clayton.....                               | Maurice.....    |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Flemington.....                            | Mullica.....    | .03           | .27  |     |    |     |   |   |   | .42 | .10  |     | .49 |     | .23 |     |     | .49 |     |     | .91  |     |     |     | .24 |     | .06 | T.  | .49  | .24  |     |    | 3.97   |
| Hightstown.....                            | Raritan.....    | .09           | .05  |     |    |     |   |   |   | .20 | .08  |     | .23 |     | .20 | .05 |     | .72 |     |     | .63  | .05 |     |     | .12 |     | .18 | .05 | .25  | .48  |     |    | 3.38   |
| Maytown.....                               | Delaware.....   | .11           | .05  |     |    |     |   |   |   | .22 | .12  | .02 | .29 | .03 | .25 | .05 |     | .65 |     |     | .68  | .05 |     |     | .22 | .10 | .08 | .08 | .26  | .30  |     |    | 3.56   |
| Indian Mills.....                          | Mullica.....    | .10           | .30  |     | T. |     |   |   |   | .18 | .10  |     | .51 |     | .28 |     |     | .66 | .10 |     | .66  | .10 |     |     | .20 |     | .08 | .08 | .45  | .20  |     |    | 3.16   |
| Lakewood.....                              | Metedeconk..... | .21           | T.   | T.  |    |     |   |   |   | .30 | .14  |     | .20 |     | .25 | .04 |     | .65 |     |     | .65  | .10 |     |     | .20 |     | .10 | .08 | .40  | .45  |     |    | 3.77   |
| Moorestown.....                            | Delaware.....   | .10           | .19  |     |    |     |   |   |   | .27 |      |     | .60 |     | .25 |     |     | .53 |     |     | .67  |     |     |     | .24 |     | .08 | .40 | .45  |      |     |    | 4.03   |
| Northfield.....                            | Coast.....      | .10           | 1.14 | .02 |    |     |   |   |   | .51 | T.   |     | .57 |     | .17 |     |     | .70 |     |     | .80  | .14 |     |     | .16 |     | T.  | .03 | .83  | .70  |     |    | 5.87   |
| Pleasantville.....                         | Coast.....      | .04           | 1.10 |     |    |     |   |   |   | .61 | .01  |     | .57 |     | .18 |     |     | .68 |     |     | .77  | .16 |     |     | .15 |     | .26 | .68 | .52  |      |     |    | 5.83   |
| Trenton***.....                            | Delaware.....   | .07           | .07  |     | T. |     |   |   |   | .14 | .01  | T.  | .23 | T.  | .19 |     | .07 | .63 |     | T.  | .56  | .04 |     |     | .20 |     | .08 | .06 | .38  | .10  |     |    | 2.83   |
| Cuckerton.....                             | Coast.....      | .10           | .88  |     |    |     |   |   |   | .96 | .05  |     | .70 |     | .20 |     |     | .87 | .12 |     | .87  | .12 |     |     | .35 |     | T.  | .16 | .67  | .51  |     |    | 5.57   |
| Inland.....                                | Maurice.....    | .09           | 1.29 |     |    |     |   |   |   | .36 | .06  |     | .38 |     | .27 |     |     | .60 |     |     | 1.09 | .07 |     |     | .20 |     | T.  |     | .62  | .48  |     |    | 5.51   |
| Voorhees.....                              | Coast.....      |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Philadelphia, Pa.....                      | Delaware.....   | .25           | .07  |     | T. |     |   |   |   | .26 | .03  |     | .32 | T.  | .12 |     | .04 | .45 |     | .05 | .67  | .05 |     | T.  | .22 |     | .08 | .08 | .85  | .15  |     |    | 3.69   |
| <i>The Sea Coast.</i>                      |                 |               |      |     |    |     |   |   |   |     |      |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |      |      |     |    |        |
| Asbury Park.....                           | Coast.....      | .23           | T.   |     |    |     |   |   |   | .52 | .08  |     | .02 |     | .20 | T.  |     | .72 |     |     | .57  | .02 |     |     | .19 |     | .13 | .22 | .50  | .12  |     |    | 3.52   |
| Atlantic City***.....                      | do.....         | .08           | 1.71 |     | T. |     |   |   |   | .70 | .01  |     | .72 | T.  | .13 |     | T.  | .74 |     |     | .66  | .16 |     |     | .14 |     | T.  | .52 | .61  | .51  |     |    | 6.69   |
| Cape May City.....                         | do.....         | .05           | .05  | T.  |    |     |   |   |   | .43 | .01  |     | .32 |     | .14 |     |     | .44 |     |     | .86  | .08 |     |     | .01 |     | .11 | .47 | .16  |      |     |    | 3.22   |
| Long Branch**.....                         | do.....         | .07           |      |     |    |     |   |   |   | .51 | .02  |     | .01 | T.  |     | .06 | .72 |     |     | .33 | .10  |     |     | .10 |     | .02 | .39 | .16 | .29  |      |     |    | 2.79   |
| Sandy Hook***.....                         | do.....         | .21           | .01  |     |    |     |   |   |   | .41 | .04  |     | .02 | T.  | .27 |     | .03 | .52 |     |     | .49  | .10 |     |     | .18 |     | .20 | .09 | .33  | .05  |     |    | 2.95   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.07         | 30.46    | 8     | 29.58   | 28    | s                | 28              | ne.        | 28        | 86                                         | 82                                         | 42                                  |
| Cape May City.....    | 30.10         | 30.42    | 16    | 29.61   | 1     | 10               | 36              | nw.        | 5         | 84                                         | 80                                         | ...                                 |
| Long Branch.....      |               |          |       |         |       |                  | 63              | ne.        | 28        | 78*                                        | 69†                                        | 40                                  |
| Newark.....           |               |          |       |         |       |                  |                 |            |           |                                            |                                            |                                     |
| New York, N. Y.....   | 30.06         | 30.49    | 8     | 29.54   | 1     | 18               | 62              | nw.        | 5         | 79                                         | 75                                         | 37                                  |
| Philadelphia, Pa..... | 30.08         | 30.50    | s     | 29.53   | 1     | 10               | 32              | nw.        | 5         | 83                                         | 77                                         | 39                                  |
| Ridgefield.....       | 30.06         | 30.50    | s     | 29.53   | 1     | 17               | 50              | nw.        | 25        | 82                                         | 78                                         | 42                                  |
| Sandy Hook.....       | 30.05         | 30.48    | 8     | 29.53   | 1     | 12               | 44              | w.         | 10        | 84                                         | 78                                         | 43                                  |
| Trenton.....          | 30.06         | 30.50    | 8     | 29.51   | 1     |                  |                 |            |           |                                            |                                            |                                     |



## Daily Temperatures for November, 1921.

| Stations.                                   | 1       | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30   | 31   | Mean |
|---------------------------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| <i>The Highlands and Kittatinny Valley.</i> |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |
| Belvidere.....                              | Maximum | 62  | 53  | 47  | 56  | 49  | 46  | 63  | 52  | 40  | 46  | 45  | 41  | 41  | 50  | 49  | 58  | 56  | 75  | 72  | 65  | 43  | 52  | 47  | 38  | 53  | 42  | 40  | 40  | 51   | 51   | 50.4 |
|                                             | Minimum | 52  | 44  | 40  | 32  | 39  | 28  | 35  | 27  | 31  | 32  | 25  | 36  | 24  | 33  | 34  | 25  | 40  | 46  | 55  | 40  | 32  | 33  | 31  | 28  | 31  | 25  | 35  | 34  | 32   | 32   | 34.4 |
| Charlotteburg.....                          | Maximum | 60  | 58  | 50  | 51  | 48  | 44  | 52  | 50  | 48  | 45  | 46  | 43  | 43  | 41  | 43  | 51  | 56  | 74  | 78  | 68  | 31  | 55  | 51  | 60  | 47  | 39  | 40  | 45  | 51.0 |      |      |
|                                             | Minimum | 48  | 40  | 39  | 32  | 38  | 27  | 30  | 24  | 30  | 33  | 18  | 31  | 23  | ... | 35  | 25  | 37  | 50  | 48  | 38  | 31  | 26  | 21  | 30  | 18  | 22  | 31  | 31  | 32   | 31.8 |      |
| Dover.....                                  | Maximum | 60  | 50  | 46  | 52  | 47  | 42  | 58  | 48  | 39  | 47  | 47  | 40  | 42  | 46  | 49  | 51  | 58  | 74  | 70  | 62  | 44  | 55  | 44  | 45  | 50  | 39  | 39  | 38  | 43   | 47   | 49.1 |
|                                             | Minimum | 48  | 43  | 37  | 34  | 31  | 28  | 35  | 28  | 32  | 28  | 22  | 33  | 24  | 31  | 36  | 26  | 39  | 53  | 56  | 32  | 32  | 38  | 29  | 28  | 26  | 23  | 34  | 34  | ...  | 34   | 33.6 |
| Layton.....                                 | Maximum | 59  | 56  | 51  | 58  | 45  | 43  | 55  | 49  | 39  | 49  | 41  | 40  | 41  | 43  | 50  | 50  | 50  | 75  | 71  | 68  | 41  | 56  | 49  | 36  | 49  | 34  | 36  | 36  | 42   | 48   | 48.7 |
|                                             | Minimum | 48  | 40  | ... | 41  | 36  | 27  | 30  | 21  | 31  | 31  | 20  | 31  | 24  | 36  | 31  | 24  | 39  | 46  | 52  | 34  | ... | 34  | 29  | 25  | 30  | 21  | 34  | 33  | 32   | 33   | 32.6 |
| Newton.....                                 | Maximum | 60  | 60  | 43  | 50  | 53  | ... | ... | 53  | 37  | 45  | 41  | 39  | 37  | 45  | 47  | 49  | 53  | 72  | 71  | 68  | 39  | 51  | 48  | 38  | 48  | 44  | 37  | 36  | 41   | 47   | 48.3 |
|                                             | Minimum | 51  | 41  | 40  | 31  | ... | ... | ... | 25  | 25  | 28  | 26  | 33  | 24  | 31  | 34  | 28  | 39  | 51  | 58  | 38  | 31  | 36  | 28  | 25  | 31  | 29  | 34  | 33  | 32   | 31   | 33.8 |
| Phillipsburg.....                           | Maximum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ...  | ...  |
|                                             | Minimum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ...  | ...  |
| Sussex.....                                 | Maximum | 57  | 59  | 49  | 51  | 47  | 44  | 55  | 49  | 41  | 46  | 42  | 41  | 43  | 42  | ... | ... | 56  | 76  | 73  | 69  | 57  | 54  | 52  | 40  | 48  | 40  | 38  | 38  | 43   | 45   | 49.8 |
|                                             | Minimum | 49  | 43  | 40  | 29  | 39  | 28  | 31  | 24  | 30  | 32  | 20  | 34  | 25  | 31  | ... | ... | 38  | 49  | 49  | 41  | 32  | 36  | 25  | 25  | 32  | 22  | 35  | 34  | 33   | 35   | 33.6 |
| <i>The Red Sandstone Plain.</i>             |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |
| Bergen Point.....                           | Maximum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ...  | ...  |
|                                             | Minimum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ...  | ...  |
| Boonton§§.....                              | Maximum | 62  | 50  | 49  | 54  | 50  | 46  | ... | ... | 41  | 49  | 45  | 45  | 46  | 46  | 50  | 51  | 59  | 76  | 73  | 47  | 49  | 54  | 37  | 51  | 51  | 41  | 42  | 41  | 49   | ...  | 50.1 |
|                                             | Minimum | 45  | 42  | 42  | 32  | 40  | 30  | 32  | 24  | 30  | 31  | 19  | 29  | 27  | 30  | 32  | 23  | 28  | 42  | 47  | 41  | 30  | 36  | 26  | 28  | 30  | 21  | 28  | 33  | 34   | 34   | 32.2 |
| Elizabeth.....                              | Maximum | 63  | 61  | 51  | 55  | 50  | 47  | 61  | 52  | 42  | 50  | 50  | 45  | 44  | 46  | 52  | 52  | 61  | 77  | 76  | 65  | 45  | 56  | 49  | 45  | 51  | 47  | 43  | 41  | 43   | 51   | 52.4 |
|                                             | Minimum | 54  | 46  | 45  | 32  | 43  | 29  | 37  | 30  | 34  | 38  | 26  | 34  | 27  | 33  | 38  | 27  | 41  | 51  | 50  | 42  | 36  | 42  | 34  | 32  | 30  | 27  | 38  | 36  | 35   | 36   | 36.8 |
| Flemington.....                             | Maximum | 62  | 62  | 49  | 56  | 51  | 49  | 62  | 54  | 46  | 52  | 47  | 45  | 45  | 41  | 52  | 53  | 64  | 78  | 74  | 72  | 44  | 58  | 53  | 37  | 55  | 42  | 41  | 40  | 44   | 54   | 52.8 |
|                                             | Minimum | 54  | 45  | 43  | 33  | 42  | 29  | 35  | 28  | 34  | 37  | 25  | 35  | 26  | 33  | 37  | 28  | 40  | 49  | 53  | 42  | 35  | 38  | 33  | 31  | 32  | 27  | 38  | 36  | 35   | 35   | 36.3 |
| Highwood.....                               | Maximum | 62  | 60  | 48  | 52  | 49  | 44  | 60  | 46  | 40  | ... | 49  | 46  | 42  | 46  | 50  | 49  | 57  | 70  | 71  | 64  | 43  | 51  | 44  | 43  | 43  | 42  | 42  | 36  | 41   | ...  | 49.6 |
|                                             | Minimum | 53  | 45  | 38  | 32  | 35  | 27  | 36  | 28  | 34  | 36  | 24  | 35  | 26  | 33  | 35  | 26  | 41  | 50  | 52  | 39  | 35  | 40  | 32  | 31  | 30  | 25  | 36  | 35  | 34   | 32   | 35.2 |
| Jersey City.....                            | Maximum | 65  | 60  | 51  | 54  | 52  | 47  | 61  | 50  | 44  | 51  | 50  | 45  | 44  | 48  | 53  | 52  | 60  | 69  | 70  | 64  | 47  | 53  | 46  | 47  | 50  | 48  | 46  | 41  | 43   | 51   | 52.1 |
|                                             | Minimum | 47  | 47  | 44  | 38  | 39  | 33  | 42  | 34  | 37  | 39  | 32  | 39  | 30  | 34  | 39  | 33  | 45  | 54  | 54  | 41  | 38  | 37  | 36  | 33  | 36  | 34  | 30  | 38  | 35   | 37   | 38.8 |
| Kearny.....                                 | Maximum | 65  | 60  | 50  | 52  | 52  | 48  | 60  | 47  | 48  | 50  | 40  | 47  | 48  | 48  | 50  | 52  | 62  | 73  | 76  | 64  | 45  | 56  | 50  | 49  | 51  | 42  | 42  | 40  | 43   | 50   | 52.3 |
|                                             | Minimum | 53  | 45  | 45  | 38  | 37  | 32  | 45  | 32  | 32  | 37  | 31  | 36  | 29  | 35  | 40  | 34  | 44  | 50  | 54  | 38  | 36  | 41  | 32  | 32  | 35  | 31  | 36  | 36  | 35   | 36   | 37.9 |
| Lambertville.....                           | Maximum | 62  | 52  | 47  | 52  | 49  | 45  | 57  | 45  | 42  | 42  | 46  | 40  | 40  | 44  | 47  | 47  | 61  | 71  | 71  | 64  | 47  | 55  | 46  | 47  | 48  | 46  | 42  | 40  | 42   | 48   | 49.3 |
|                                             | Minimum | 50  | 44  | 40  | 34  | ... | ... | 30  | 36  | 29  | 33  | 26  | 50  | 25  | 32  | 35  | 28  | 41  | 54  | 57  | 37  | 34  | 37  | 32  | 30  | 32  | 31  | 38  | 36  | 33   | 34   | 35.5 |
| Little Falls§§.....                         | Maximum | 63  | 49  | 50  | 54  | 49  | 50  | 60  | 50  | 42  | 50  | 48  | 44  | 44  | 47  | 52  | 54  | 59  | 77  | 76  | 48  | 44  | 56  | 47  | 48  | 52  | 41  | 40  | 39  | 43   | 50   | 50.5 |
|                                             | Minimum | 45  | 44  | 41  | 36  | 41  | 29  | 35  | 29  | 33  | 33  | 23  | 35  | 28  | 32  | 35  | 27  | 38  | 45  | 47  | 42  | 35  | 38  | 32  | 30  | 32  | 25  | 32  | 35  | 34   | 36   | 34.9 |
| Newark.....                                 | Maximum | 61  | 56  | 50  | 49  | 49  | 42  | 58  | 49  | 41  | 51  | 51  | 43  | 41  | 43  | 50  | 49  | 54  | 72  | 75  | 65  | 45  | 54  | 43  | 46  | 47  | 41  | 40  | 42  | 48   | ...  | 49.8 |
|                                             | Minimum | 54  | 48  | 41  | 40  | 36  | 32  | 38  | 34  | 33  | 42  | 31  | 39  | 29  | 32  | 38  | 38  | 44  | 50  | 58  | 38  | 36  | 41  | 31  | 33  | 37  | 34  | 37  | 38  | 37   | 34   | 38.4 |
| New Brunswick.....                          | Maximum | 65  | 62  | 51  | 56  | 51  | 48  | 61  | 57  | 42  | 49  | 49  | 45  | 42  | 47  | 51  | 62  | 75  | 76  | 65  | 45  | 53  | 53  | 40  | 53  | 47  | 45  | 43  | 44  | 52   | ...  | 52.7 |
|                                             | Minimum | 54  | 45  | 43  | 31  | 42  | 26  | 36  | 31  | 35  | 38  | 26  | 35  | 32  | 38  | 27  | 41  | 51  | 59  | 42  | 35  | 38  | 34  | 30  | 31  | 26  | 38  | 36  | 34  | 31   | ...  | 36.3 |
| Paterson.....                               | Maximum | 62  | 62  | 54  | 56  | 51  | 47  | 62  | 51  | 42  | 50  | 50  | 45  | 45  | 46  | 53  | 60  | 58  | 74  | 76  | 64  | ... | 58  | 49  | ... | 52  | 44  | 43  | 40  | 43   | 50   | 53.1 |
|                                             | Minimum | 53  | 45  | 44  | 37  | 40  | 30  | 37  | 32  | 34  | 38  | 28  | 39  | 29  | 37  | 39  | 33  | 42  | 49  | 49  | 41  | 34  | 31  | 33  | 29  | 37  | 36  | 35  | 37  | ...  | 37.6 |      |
| Plainfield.....                             | Maximum | 61  | 58  | 50  | 55  | 50  | 46  | 60  | 48  | 41  | 50  | 50  | 44  | 43  | 45  | 52  | 51  | 61  | 75  | 76  | 60  | 47  | 52  | 45  | 46  | 53  | 47  | 42  | 40  | 44   | 50   | 51.1 |
|                                             | Minimum | 52  | 44  | 40  | 30  | 33  | 27  | 35  | 26  | 33  | 32  | 20  | 34  | 22  | 31  | 22  | 40  | 45  | 50  | 35  | 34  | 38  | 30  | 32  | 24  | 30  | 35  | 35  | 34  | 32   | ...  | 33.6 |
| Ridgefield.....                             | Maximum | 63  | 55  | 48  | 52  | 48  | 43  | 59  | 43  | 39  | 49  | 49  | 43  | 41  | 47  | 48  | 48  | 57  | 71  | 74  | 62  | 42  | 54  | 41  | 45  | 49  | 42  | 39  | 38  | 41   | 47   | 49.2 |
|                                             | Minimum | 53  | 43  | 28  | 35  | 32  | 28  | 40  | 29  | 34  | 28  | 28  | 33  | 27  | 32  | 31  | 28  | 43  | 49  | 54  | 36  | 36  | 39  | 31  | 31  | 29  | 27  | 34  | 34  | 34   | ...  | 34.7 |
| Somerville.....                             | Maximum | 68  | 58  | ... | 58  | ... | 45  | 59  | 55  | 43  | 49  | 44  | 44  | 46  | 43  | 51  | 54  | 59  | 71  | 69  | 63  | 51  | 52  | 48  | 43  | 52  | 50  | 47  | 44  | 44   | 52   | 52.2 |
|                                             | Minimum | ... | 46  | 42  | 33  | 43  | 32  | 39  | 34  | 35  | 39  | ... | 39  | ... | 30  | 37  | 31  | 44  | 52  | 58  | 39  | 36  | 37  | 31  | 30  | 34  | ... | 36  | 35  | 32   | 34   | 37.7 |
| South Orange.....                           | Maximum | 62  | 56  | 49  | 52  | 49  | 43  | 58  | 49  | 40  | 48  | 47  | 44  | 40  | 45  | 50  | 60  | 71  | 73  | 65  | 47  | 53  | 44  | 47  | 49  | 42  | 41  | 39  | 42  | 48   | ...  | 50.1 |
|                                             | Minimum | 53  | 45  | 39  | 36  | 34  | 30  | 39  | 32  | 34  | 30  | 26  | 34  | 28  | 33  | 34  | 29  | 42  | 54  | 55  | 37  | 35  | 40  | 31  | 30  |     |     |     |     |      |      |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist,

VOL. XXVI. TRENTON, N. J., DECEMBER, 1921. No. 12.

### GENERAL SUMMARY.

The weather of December was approximately normal in all its elements, except in the total precipitation, which was somewhat deficient. Alternating changes from above normal to subnormal warmth every few days, accompanied by similar frequent variations in sunshine and cloudiness, afforded the customary lack of uniformity which ordinarily marks the commencement of winter in this region. From the middle of the month to the close, except on the 17th and 18th, the temperatures averaged mostly below freezing, and nearly all ponds closed over with ice. Streams were nearly all frozen by the cold wave of the 22d, and navigation of the Delaware closed above Bristol, except for a short period on the 27th-28th, when the river was again open up to Trenton.

The snowstorm of the 4th was one of the heaviest on record in early December, especially over the central and southwestern counties where the greatest depths occurred.

The year closed with an unusual excess of warmth accumulated, amounting to somewhat over two degrees per day. The year's precipitation shows an accumulated deficiency ranging from four to ten inches, which is in striking contrast to an excess of from one to eight inches in the year 1920.

Storm warnings were displayed along the coast on the 2d, 4th, 17th, 21st, 29th, and 31st.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 32.3°, which is 0.5° below the normal. The highest temperature was 64° at Vineland on the 1st, and the lowest, 9° below zero at Culvers Lake on the 22d. The greatest daily range of temperature was 40° at Little Falls on the 18th and Charlotteburg on the 31st. The highest monthly mean was 36.8° at Cape May City, and the lowest, 28.4° at Layton.

The temperature departure from the normal for the year 1921, by sections, is: The Highlands, +2.7°; Red Sandstone Plain, +2.6°; Southern Interior, +2.7°; Sea Coast, +2.2°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 2.37 inches, which is 1.62 inches below the normal. The greatest monthly precipitation was 3.23 inches at Dover, and the least, 1.62 inches, at Bergen Point. The average total snowfall was 6.2 inches, which was 0.1 inch below the normal; this average ranged from 7.1 inches over the Red Sandstone Plain to 4.5 inches on the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 1.04 inches at Culvers Lake on the 3d. The average number of days on which 0.01 inch or more of precipitation fell was 9, or normal.

The precipitation accumulated departure from the normal for the year 1921, by sections, is: The Highlands, -4.57 inches; Red Sandstone Plain, -7.93 inches; Southern Interior, -8.35 inches; Sea Coast, -10.60 inches.

### WIND.

The prevailing wind direction was from the northwest, which

was normal. The wind movement was 12 miles per hour, which was two miles below the normal. The highest velocity, sustained for 5 consecutive minutes, was 70 miles per hour from the northwest at Long Branch on the 21st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than the normal; partly cloudy, 8, which was 1 less than the normal; cloudy, 10, or normal. The per cent of possible sunshine was 54, which was 2 per cent above the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 4.1 feet, and the highest, 10.0 feet on the 1st. At Trenton the mean daily stage was 2.7 feet, which was 0.4 foot below the normal. The highest stage was 6.9 feet on the 1st, and the lowest, 1.4 feet on the 17th, 18th, and 24th.

Dense fog occurred on the 2d, 23d, and 24th. Haze was noted on the 20th. Sleet was observed at several stations in northern districts on the 21st, 23d, 24th, 25th, 29th, and 31st. The amounts were small. Solar halos were observed on the 5th, 13th, 14th, and 19th, and lunar halos on the 8th, 10th, 11th, 12th, 14th, and 19th. A thunderstorm occurred at Bergen Point on the 18th. The first killing frost of autumn occurred at Cape May City on the 5th.

### NOTE.

A change of anemometer exposure at the Atlantic City station was made on December 17, 1921, from the Weather Bureau roof to Absecon Lighthouse; from 48 feet to 172 feet above ground. Comparative readings indicate an increase in wind movement at the new exposure of about 120 per cent. The change was made because of recent construction of high buildings in the neighborhood of the Weather Bureau Building, which greatly obstructed air movement at the lower level.

### COMPARATIVE DATA FOR DECEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 35.3         | 60       | 6       | 3.15           | 4.33      | 2.47   | .....        | .....          | .....   | .....                  |
| 1886..... | 29.1         | 60       | -2      | 3.51           | 4.65      | 1.62   | .....        | .....          | .....   | .....                  |
| 1887..... | 33.7         | 62       | 6       | 5.23           | 7.32      | 3.64   | .....        | .....          | .....   | .....                  |
| 1888..... | 34.9         | 65       | 5       | 3.69           | 4.95      | 2.05   | .....        | .....          | 12      | 10                     |
| 1889..... | 41.5         | 71       | 8       | 1.62           | 3.69      | 0.25   | .....        | .....          | .....   | 8                      |
| 1890..... | 30.9         | 56       | 3       | 3.89           | 5.74      | 2.34   | .....        | .....          | .....   | 9                      |
| 1891..... | 40.9         | 71       | 9       | 4.25           | 5.32      | -2.25  | 11           | 10             | 10      | 8                      |
| 1892..... | 30.4         | 68       | 1       | 1.87           | 3.09      | 1.30   | 9            | 9              | 9       | 8                      |
| 1893..... | 34.9         | 70       | 5       | 3.39           | 4.66      | 1.67   | 11           | 10             | 10      | 11                     |
| 1894..... | 34.8         | 66       | -3      | 4.36           | 6.39      | 1.64   | 12           | 9              | 10      | 9                      |
| 1895..... | 37.2         | 70       | 3       | 2.61           | 5.42      | 1.71   | 11           | 9              | 11      | 6                      |
| 1896..... | 31.3         | 64       | -15     | 1.43           | 2.70      | 0.85   | 14           | 9              | 8       | 4                      |
| 1897..... | 35.1         | 69       | -3      | 4.90           | 6.44      | 3.07   | 8            | 11             | 12      | 11                     |
| 1898..... | 33.3         | 66       | -2      | 3.53           | 4.85      | 2.38   | 12           | 10             | 9       | 9                      |
| 1899..... | 35.5         | 69       | -1      | 2.11           | 4.30      | 1.29   | 14           | 10             | 7       | 7                      |
| 1900..... | 34.4         | 64       | -2      | 2.59           | 3.97      | 1.47   | 14           | 10             | 7       | 6                      |
| 1901..... | 32.6         | 68       | -8      | 7.30           | 9.45      | 4.87   | 12           | 9              | 10      | 11                     |
| 1902..... | 31.7         | 62       | -11     | 7.23           | 8.99      | 5.81   | 13           | 7              | 11      | 13                     |
| 1903..... | 28.6         | 56       | -13     | 4.08           | 5.49      | 3.20   | 14           | 9              | 8       | 9                      |
| 1904..... | 27.0         | 60       | -15     | 3.19           | 5.38      | 2.06   | 10           | 7              | 14      | 12                     |
| 1905..... | 36.3         | 61       | 5       | 3.65           | 5.60      | 2.58   | 14           | 8              | 9       | 7                      |
| 1906..... | 33.0         | 70       | -5      | 3.99           | 6.18      | 2.70   | 9            | 8              | 14      | 13                     |
| 1907..... | 36.6         | 70       | -3      | 4.91           | 7.13      | 3.55   | 12           | 8              | 11      | 9                      |
| 1908..... | 34.0         | 72       | 1       | 3.63           | 5.26      | 2.10   | 10           | 8              | 13      | 11                     |
| 1909..... | 29.8         | 60       | -15     | 4.45           | 5.51      | 3.55   | 14           | 8              | 9       | 5                      |
| 1910..... | 26.5         | 58       | -14     | 2.79           | 4.60      | 1.92   | 11           | 10             | 10      | 9                      |
| 1911..... | 38.4         | 70       | 2       | 3.77           | 5.09      | 2.94   | 10           | 7              | 14      | 11                     |
| 1912..... | 36.9         | 68       | -1      | 4.73           | 6.33      | 3.40   | 12           | 9              | 10      | 9                      |
| 1913..... | 37.7         | 63       | -11     | 3.03           | 4.59      | 1.47   | 13           | 9              | 9       | 7                      |
| 1914..... | 31.1         | 66       | -12     | 5.33           | 9.12      | 2.99   | 10           | 6              | 15      | 12                     |
| 1915..... | 31.9         | 64       | 3       | 4.82           | 7.83      | 2.19   | 12           | 9              | 10      | 8                      |
| 1916..... | 32.3         | 70       | -8      | 4.61           | 6.34      | 3.35   | 13           | 8              | 10      | 11                     |
| 1917..... | 24.8         | 54       | -29     | 3.18           | 5.46      | 1.55   | 13           | 7              | 11      | 8                      |
| 1918..... | 37.5         | 66       | 6       | 3.92           | 4.94      | 3.21   | 12           | 7              | 12      | 10                     |
| 1919..... | 28.8         | 67       | -18     | 2.98           | 5.14      | 1.84   | 10           | 8              | 13      | 12                     |
| 1920..... | 36.4         | 69       | -1      | 5.10           | 6.63      | 2.86   | 11           | 8              | 12      | 8                      |
| 1921..... | 32.3         | 64       | -9      | 2.37           | 3.23      | 1.62   | 13           | 8              | 10      | 9                      |



## Climatological Data for December, 1921.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |                |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|----------------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest.        | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |                 |       |                |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 30                       | 30.6 <sup>a</sup>             | 0.0                        | 56              | 1†    | 5              | 22    | 36                        | 2.82   | -1.25                      | 0.63                  | 7.3                        | 9                              | 19     | 4           | 8                             | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 29                       | 28.8                          | -1.0                       | 57              | 18    | -4             | 31    | 40                        | 2.74   | -1.59                      | 0.90                  | 5.0                        | 6                              | 13     | 13          | 5                             | nw.        | George S. Briggs.         |
| Culvers Lake†.....                          | Sussex.....     | 848              | 20                       | .....                         | .....                      | .....           | ..... | -9             | 22    | .....                     | 2.54   | -1.12                      | 1.04                  | 4.6                        | 10                             | 13     | 9           | 9                             | nw.        | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 37                       | 29.4                          | -0.5                       | 58              | 1     | 3              | 22†   | 34                        | 3.23   | -1.07                      | 0.83                  | 8.2                        | 9                              | 5      | 17          | 9                             | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 20                       | 28.4                          | +1.0                       | 59              | 1     | 1              | 30†   | 34                        | 2.37   | -1.57                      | 0.76                  | 4.1                        | 8                              | 13     | 7           | 11                            | sw.        | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 38                       | 29.0                          | -1.1                       | 58              | 18    | 1              | 22†   | 31                        | 2.40   | -1.31                      | 0.58                  | 6.8                        | 10                             | 12     | 6           | 13                            | .....      | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 33.2 <sup>b</sup>             | +1.9                       | 61              | 1     | 9              | 22†   | 26†                       | 1.95   | -1.79                      | 0.56                  | 4.8                        | 7                              | 17     | 7           | 7                             | .....      | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 27                       | 31.1 <sup>1</sup>             | +1.2                       | 58              | 1†    | 1              | 31    | 36†                       | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | nw.        | Rev. W. August George     |
| Means and extremes.....                     |                 | .....            | .....                    | 30.1                          | +0.2                       | 61              | 1     | -9             | 22    | 40                        | 2.58   | -1.39                      | 1.04                  | 5.8                        | 8                              | 13     | 9           | 9                             | nw.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |                 |       |                |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 24                       | 33.0                          | 0.0                        | 58              | 2†    | 7              | 22    | 25                        | 1.62   | -2.76                      | 0.58                  | 6.5                        | 6                              | 2      | 23          | 6                             | nw         | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 31                       | 31.2 <sup>b</sup>             | +0.7                       | 61              | 17    | 4              | 31    | 35                        | 2.50   | -1.48                      | 0.80                  | .....                      | 8                              | 18     | 4           | 9                             | sw.        | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 17                       | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | 3.14   | -0.96                      | 0.76                  | .....                      | 10                             | 12     | 10          | 9                             | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 42                       | 33.0                          | -0.3                       | 59              | 1†    | 7              | 22†   | 30                        | 2.42   | -1.54                      | 0.50                  | 7.0                        | 10                             | 11     | 11          | 9                             | w.         | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 35                       | 32.8                          | +0.8                       | 61              | 1     | 9              | 22†   | 30                        | 2.57   | -1.19                      | 0.65                  | 7.5                        | 11                             | 15     | 7           | 9                             | w.         | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 33                       | 30.0 <sup>1</sup>             | -1.8                       | 59              | 1     | 6              | 22†   | 32                        | 2.25   | -1.96                      | 0.50                  | .....                      | 9                              | 15     | 6           | 10                            | nw.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 33.2                          | -0.9                       | 58              | 1†    | 7              | 30    | 23                        | 1.99   | -1.94                      | 0.50                  | 7.5                        | 9                              | 13     | 4           | 14                            | nw.        | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 2                        | 32.8                          | .....                      | 59              | 1†    | 7              | 22    | 28                        | 2.33   | .....                      | 0.95                  | 6.0                        | 6                              | 13     | 12          | 6                             | n          | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 300              | 34                       | 30.8                          | -2.8                       | 57              | 2†    | 7              | 22    | 26                        | 2.27   | -1.60                      | 0.47                  | 6.5                        | 11                             | 18     | 4           | 9                             | nw.        | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 31                       | 31.6                          | +0.1                       | 61              | 1     | 4              | 30    | 40                        | 2.67   | -1.42                      | 0.71                  | .....                      | 10                             | 11     | 12          | 8                             | nw.        | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 79                       | 32.0                          | -1.3                       | 58              | 1     | 8              | 22†   | 24                        | 2.25   | -1.63                      | 0.73                  | 7.1                        | 9                              | 9      | 18          | 4                             | nw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 68                       | 32.9                          | +0.6                       | 63              | 2     | 7              | 22    | 30                        | 2.29   | -1.38                      | 0.57                  | 4.8                        | 10                             | 16     | 7           | 8                             | nw.        | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 80               | 50                       | 33.1                          | 0.0                        | 59              | 1     | 8              | 22†   | 34                        | 2.25   | -1.81                      | 0.53                  | 8.0                        | 9                              | 7      | 4           | 20                            | nw.        | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 110              | 33                       | 30.4                          | -2.3                       | 60              | 2     | 5              | 22†   | 36                        | 2.35   | -1.71                      | 0.65                  | 7.0                        | 9                              | 15     | 6           | 10                            | nw.        | E. D. Pearson.            |
| Ridgefield†.....                            | Bergen.....     | 70               | 6                        | 30.0                          | .....                      | 59              | 2     | 5              | 30    | 33                        | 2.48   | .....                      | 0.84                  | 8.5                        | 8                              | 14     | 7           | 10                            | nw.        | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 38                       | 31.6 <sup>b</sup>             | -0.6                       | 58 <sup>c</sup> | 1     | 8 <sup>1</sup> | 22    | .....                     | .....  | .....                      | 1.03                  | .....                      | 8                              | 14     | 11          | 6                             | n.         | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 200              | 51                       | 31.3                          | -0.8                       | 58              | 3†    | 7              | 22†   | 33                        | 2.84   | -1.08                      | 0.66                  | 8.5                        | 9                              | 22     | 4           | 5                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake†.....                        | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| New York, N. Y.....                         |                 | 365              | 51                       | 33.8                          | -0.6                       | 58              | 1     | 4              | 30    | 32                        | 1.89   | -1.56                      | 0.52                  | 7.3                        | 9                              | 11     | 5           | 15                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 | .....            | .....                    | 31.9                          | -0.6                       | 63              | 2     | 4              | 30†   | 40                        | 2.39   | -1.60                      | 1.03                  | 7.1                        | 9                              | 13     | 9           | 9                             | nw.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |                 |       |                |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bridgeton.....                              | Cumberland..... | 30               | 40                       | 35.6                          | -0.6                       | 63              | 1     | 10             | 22    | 31                        | 2.27   | -1.55                      | 0.65                  | 6.0                        | 7                              | 13     | 7           | 11                            | w.         | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 335                      | 33.8 <sup>a</sup>             | +0.3                       | 60              | 2†    | 9              | 22    | 27                        | 2.26   | -2.11                      | 0.59                  | 7.1                        | 10                             | 18     | 5           | 8                             | nw.        | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 3                        | 32.7                          | .....                      | 61              | 17    | 6              | 22    | 33                        | 1.99   | .....                      | 0.55                  | .....                      | 6                              | 1      | 3           | 27                            | nw.        | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 28                       | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Marvin E. Porch.          |
| Hammonton.....                              | Atlantic.....   | 103              | 20                       | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | 2.46   | -1.14                      | 0.65                  | 6.5                        | 10                             | 17     | 9           | 5                             | w.         | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 29                       | 32.0                          | -0.6                       | 60              | 1†    | 7              | 22    | 30                        | 3.14   | -0.54                      | 0.88                  | 6.0                        | 9                              | 20     | 6           | 5                             | nw.        | E. B. Savige, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 33                       | 32.2 <sup>a</sup>             | -0.7                       | 61              | 2     | 9              | 22    | 30                        | 2.56   | -1.11                      | 0.68                  | 5.5                        | 11                             | 16     | 1           | 14                            | sw.        | Wm. R. Hendrickson.       |
| Indian Mills†.....                          | Burlington..... | 76               | 32                       | 32.9                          | -0.9                       | 61              | 1     | 4              | 22    | 35                        | 2.62   | -1.78                      | 0.62                  | 7.5                        | 12                             | 11     | 9           | 11                            | nw.        | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 17                       | 32.6                          | -0.9                       | 60              | 17    | 8              | 22    | 32                        | 2.16   | -2.48                      | 0.62                  | 6.5                        | 7                              | 12     | 2           | 17                            | nw.        | R. W. Holman.             |
| Moorestown†.....                            | Burlington..... | 75               | 58                       | 33.2 <sup>b</sup>             | -0.3                       | 61              | 1     | 9              | 22    | 38                        | .....  | .....                      | .....                 | 7.0                        | .....                          | 18     | 9           | 4                             | w.         | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 14                       | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | 2.05   | -2.07                      | 0.48                  | 4.0                        | 9                              | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville†.....                         | Atlantic.....   | 26               | 23                       | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | 1.75   | -2.49                      | 0.43                  | .....                      | 7                              | 16     | 6           | 9                             | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 49                       | 33.0                          | -1.4                       | 61              | 2     | 9              | 22    | 34                        | 1.85   | -1.31                      | 0.59                  | 7.8                        | 9                              | 9      | 8           | 14                            | w.         | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 28                       | 35.4                          | +1.0                       | 63              | 1     | 7              | 22    | 33                        | 2.21   | -2.30                      | 0.59                  | 5.5                        | 9                              | 20     | 6           | 5                             | nw.        | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 52                       | 35.6                          | +1.1                       | 64              | 1     | 9              | 22    | 30                        | 2.45   | -1.37                      | 0.63                  | 6.0                        | 7                              | 16     | 7           | 8                             | nw.        | H. C. Himes.              |
| Woodbine.....                               | Cape May.....   | 43               | 28                       | .....                         | .....                      | .....           | ..... | .....          | ..... | .....                     | 2.10   | -0.94                      | 0.84                  | 6.4                        | 8                              | 10     | 7           | 14                            | nw.        | W. I. Zechman.            |
| Philadelphia, Pa.....                       |                 | 117              | 51                       | 35.6                          | -0.1                       | 60              | 1     | 12             | 22    | 34                        | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 | .....            | .....                    | 33.6                          | -0.3                       | 64              | 1     | 4              | 22    | 35                        | 2.29   | -1.69                      | 0.88                  | 6.2                        | 9                              | 14     | 6           | 11                            | nw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |                 |       |                |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 32                       | 34.4                          | -0.6                       | 60              | 3     | 9              | 22    | 27                        | 2.56   | -1.29                      | 0.68                  | 3.0                        | 7                              | 7      | 15          | 9                             | w.         | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 35.9                          | -0.5                       | 57              | 1     | 11             | 22    | 33                        | 2.30   | -1.44                      | 0.59                  | 3.4                        | 8                              | 14     | 3           | 14                            | nw.        | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 37                       | 36.8                          | -1.2                       | 59              | 1     | 12             | 22    | 30                        | 2.50   | -1.28                      | 0.77                  | 4.2                        | 13                             | 11     | 8           | 12                            | nw.        | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 14                       | 30.7                          | -3.4                       | 56              | 2     | 7              | 22    | 31                        | 1.90   | -2.84                      | 0.67                  | 7.5                        | 9                              | 7      | 13          | 11                            | nw.        | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 23                       | 33.6                          | -0.8                       | 56              | 2     | 10             | 22    | 29                        | 1.64   | -2.32                      | 0.37                  | 4.3                        | 8                              | 12     | 8           | 11                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 | .....            | .....                    | 34.3                          | -1.3                       | 60              | 3     | 7              | 22    | 33                        | 2.18   | -1.83                      | 0.77                  | 4.5                        | 9                              | 10     | 10          | 11                            | nw.        |                           |
| For the State.....                          |                 | .....            | .....                    | 32.3                          | -0.5                       | 64              | 1     | -9             | 22    | 40                        | 2.37   | -1.62                      | 1.04                  | 6.2                        | 9                              | 13     | 8           | 10                            | nw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; New Milford and Woodcliff Lake are Weehawken Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for December, 1921.

| Stations.                                  | Drainage Basin. | Day of month. |      |      |     |    |   |   |   |   |    |     |     |    |    |    |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    | Total. |      |
|--------------------------------------------|-----------------|---------------|------|------|-----|----|---|---|---|---|----|-----|-----|----|----|----|----|-----|----|----|----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|----|--------|------|
|                                            |                 | 1             | 2    | 3    | 4   | 5  | 6 | 7 | 8 | 9 | 10 | 11  | 12  | 13 | 14 | 15 | 16 | 17  | 18 | 19 | 20 | 21 | 22  | 23  | 24  | 25  | 26 | 27  | 28  | 29  | 30  | 31 |        |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |      |     |    |   |   |   |   |    |     |     |    |    |    |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    |        |      |
| Belvidere.....                             | Delaware.....   | .16           | .41  | .63  |     |    |   |   |   |   |    | .10 |     |    |    |    |    | .57 |    |    |    |    | *   | .74 |     |     |    | .15 |     | .06 |     |    | 2.82   |      |
| Charlotteburg.....                         | Passaic.....    | .90           |      | .16  |     |    |   |   |   |   |    | .13 |     |    |    |    |    | .67 |    |    |    |    |     | .78 |     |     |    |     |     | .10 |     |    | 2.74   |      |
| Culvers Lake.....                          | Delaware.....   | .05           | 1.04 | .10  | T.  | T. |   |   |   |   |    | T.  | .18 |    | T. |    |    | .70 |    |    |    |    |     | .12 | .21 | .02 |    | .02 |     | .10 |     |    | 2.54   |      |
| Dover.....                                 | Passaic.....    | .83           |      | .21  |     |    |   |   |   |   |    |     | .32 |    |    |    |    | .64 |    |    |    |    | .05 | .88 |     |     |    | .15 |     | .10 |     | T. | 2.54   |      |
| Layton.....                                | Delaware.....   | .64           |      | .10  |     |    |   |   |   |   |    | .08 |     |    |    |    |    | .76 |    |    |    | T. |     | .15 | .33 | .16 |    | T.  |     | .15 |     |    | 2.37   |      |
| Newton.....                                | Delaware.....   | .44           | .58  | .17  | T.  | T. |   |   |   |   |    | .12 |     |    |    |    |    | .52 |    |    |    | T. |     | .12 | .28 | .06 | T. | .05 |     | .06 |     | T. | 2.40   |      |
| Phillipsburg.....                          | do.....         | .56           |      | .01  |     |    |   |   |   |   |    | .05 | T.  |    |    |    |    | .48 |    |    |    |    |     | .26 | .54 | .05 |    |     |     | T.  |     |    | 2.40   |      |
| Sussex.....                                | Hudson.....     | .25           | .68  | .05  |     |    |   |   |   |   |    | \$  |     |    |    |    |    | .20 |    |    |    | T. |     | *   | .30 | T.  |    | \$  |     | T.  | \$  |    | 1.95   |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |      |     |    |   |   |   |   |    |     |     |    |    |    |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    |        |      |
| Bergen Point.....                          | Coast.....      | .58           |      | .51  |     |    |   |   |   |   |    | .18 |     |    |    |    |    | T   |    |    |    |    |     | .26 |     | .03 |    | .06 |     | T.  | T.  | T. | 1.62   |      |
| Boonton.....                               | Passaic.....    |               | .80  |      | .13 |    |   |   |   |   |    | .09 |     |    |    |    |    | .57 |    |    |    |    |     | .25 | .35 | .25 |    | .06 |     |     |     |    | 2.50   |      |
| Chatham II.....                            | do.....         |               | .66  |      | .37 | T. |   |   |   |   |    | T.  | .15 | T. |    |    |    | .76 |    |    |    |    |     | .28 | .32 | .08 |    | .18 |     | .05 |     |    | 3.14   |      |
| Elizabeth.....                             | Coast.....      | .28           | .26  | .35  |     |    |   |   |   |   |    | .12 |     |    |    |    |    | .50 |    |    |    | T. | T.  | .27 | .47 | .22 |    | .07 |     | .04 | .13 |    |        | 2.42 |
| Flemington.....                            | Raritan.....    | .36           | .23  | .40  | .05 |    |   |   |   |   |    | .12 | T.  |    |    |    |    | .41 |    |    |    | T. |     | .13 | .65 | .08 |    | .08 |     | .06 |     | T. | 2.57   |      |
| Highwood.....                              | Hackensack..... | .46           | .10  | .26  |     | T. |   |   |   |   |    | .10 |     |    |    |    |    | .37 |    |    |    | T. |     | .24 | .50 | T.  |    | .15 |     | .07 |     |    | 2.25   |      |
| Jersey City.....                           | Coast.....      | .50           | .10  | .30  |     |    |   |   |   |   |    | .15 |     |    |    |    |    | .20 |    |    |    |    |     | *   | .61 | T.  |    | .08 |     | .05 |     |    | 1.99   |      |
| Kearny.....                                | Coast.....      | .53           |      | .29  |     |    |   |   |   |   |    | .04 |     |    |    |    |    | .50 |    |    |    | T. |     | .95 | T.  |     |    | .02 |     |     |     |    | 2.33   |      |
| Lambertville.....                          | Delaware.....   | .40           | .10  | .44  | .02 |    |   |   |   |   |    | .09 | .02 |    |    |    |    | .47 |    |    |    | T. |     | .23 | .43 |     |    | .02 |     | .05 |     |    | 2.27   |      |
| Little Falls.....                          | Passaic.....    |               | .63  |      | .27 |    |   |   |   |   |    | .06 |     |    |    |    |    | .71 |    |    |    |    |     | .25 | .51 | .13 |    | .05 |     | .05 | .01 |    |        | 2.67 |
| Newark**.....                              | Coast.....      | .41           | .32  | .22  |     |    |   |   |   |   |    | .05 | T.  |    |    |    |    | .48 |    |    |    |    |     | .35 | .15 | .02 |    | .12 |     | .13 |     |    | 2.25   |      |
| New Brunswick.....                         | Raritan.....    | .19           | .33  | .30  | T.  |    |   |   |   |   |    | .08 | T.  |    |    |    |    | .57 |    |    |    | T. |     | .24 | .44 | .08 |    | .03 |     | .03 |     |    | 2.29   |      |
| New Milford.....                           | Hackensack..... |               |      |      |     |    |   |   |   |   |    |     |     |    |    |    |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    |        |      |
| Paterson.....                              | Passaic.....    | .38           | .20  | .15  | T.  |    |   |   |   |   |    | .12 |     |    |    |    |    | .53 |    |    |    | T. |     | .24 | .50 |     |    | .08 |     | .05 |     |    |        |      |
| Plainfield.....                            | Raritan.....    | .48           |      | .31  |     | T. |   |   |   |   |    | .10 | T.  |    |    |    |    | .65 |    |    |    |    |     | .35 | .30 | .05 |    | .08 |     | .03 |     |    | 2.25   |      |
| Ridgefield**.....                          | Hackensack..... | .52           |      | .29  | T.  | T. |   |   |   |   |    | .34 |     |    |    |    |    | .31 |    |    | T. |    |     | .31 | .53 | T.  |    | .10 |     | .08 |     |    | 2.35   |      |
| Somerville.....                            | Raritan.....    | .24           |      | 1.03 |     |    |   |   |   |   |    | \$  |     |    |    |    |    | .65 |    |    |    |    |     | .29 | .32 |     |    | .28 |     | .20 |     |    | 2.48   |      |
| South Orange.....                          | Rahway.....     | .62           |      | .29  |     |    |   |   |   |   |    | .15 |     |    | T. |    |    | .66 |    |    |    |    |     | *   | .93 | .02 |    | .06 |     | .11 |     |    | \$     |      |
| Woodcliff Lake.....                        | Hackensack..... |               |      |      |     |    |   |   |   |   |    |     |     |    |    |    |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    |        |      |
| New York, N. Y***                          | Coast.....      | .52           |      | .30  | T.  | T. |   |   |   |   |    | .16 | T.  |    |    |    |    | .19 |    |    |    | T. |     | .31 | .28 | .01 |    | .08 |     | .04 |     |    | T.     | 1.89 |
| <i>The Southern Interior.</i>              |                 |               |      |      |     |    |   |   |   |   |    |     |     |    |    |    |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    |        |      |
| Bridgeton.....                             | Coast.....      | .45           |      | .40  |     |    |   |   |   |   |    |     | .05 |    |    |    |    | .65 |    |    |    |    |     | .32 | T.  | .35 |    |     |     | .05 |     |    | 2.27   |      |
| Burlington.....                            | Delaware.....   | .37           | .10  | *    | .59 | T. |   |   |   |   |    | .03 | T.  |    |    |    |    | .59 |    |    |    |    |     | *   | .55 | T.  |    |     | .01 |     | .02 |    |        | 2.26 |
| Camp Dix.....                              | Delaware.....   | .50           |      | .55  | T.  | T. |   |   |   |   |    |     |     |    |    |    |    | .45 |    |    |    |    |     | .19 | .30 | T.  |    |     |     | T.  |     |    | 1.99   |      |
| Clayton.....                               | Maurice.....    |               |      |      |     |    |   |   |   |   |    | T.  |     |    |    |    |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    |        |      |
| Hammononton.....                           | Mullica.....    | .12           | .27  | .65  | .14 |    |   |   |   |   |    |     |     |    |    | </ |    |     |    |    |    |    |     |     |     |     |    |     |     |     |     |    |        |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity.<br>per cent. at 8 a. m. | Relative humidity.<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.07         | 30.72    | 16    | 29.35   | 12    | 12               | 60              | s.         | 18        | 81                                         | 73                                         | 50                                  |
| Cape May City.....    | 30.10         | 30.75    | 16    | 29.45   | 12    | 10               | 40              | n.w.       | 21        | 80                                         | 77                                         | 50                                  |
| Long Branch.....      |               |          |       |         |       |                  | 70              | n.w.       | 21        |                                            |                                            |                                     |
| Newark.....           |               |          |       |         |       |                  |                 |            |           |                                            |                                            |                                     |
| New York, N. Y.....   | 30.03         | 30.73    | 16    | 29.35   | 12    | 19               | 70              | n.w.       | 21        | 66*                                        | 60†                                        | 56                                  |
| Philadelphia, Pa..... | 30.06         | 30.75    | 16    | 29.38   | 12    | 9                | 31              | n.w.       | 21        | 60                                         | 60                                         | 57                                  |
| Ridgefield.....       | 30.03         | 30.74    | 16    | 29.34   | 12    |                  |                 |            |           | 74                                         | 65                                         | 43                                  |
| Mandy Hook.....       | 30.03         | 30.75    | 16    | 29.33   | 12    | 17               | 60              | s.         | 18        | 73                                         | 68                                         | 55                                  |
| Monmouth.....         | 30.04         | 30.72    | 16    | 29.33   | 12    | 11               | 48              | w.         | 18        | 80                                         | 75                                         | 55                                  |



### Stations.

§§ Instruments are read in the morning; the maximum temperature then read is charged



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

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TRENTON, N. J.

VOL. XXV.

ANNUAL SUMMARY, 1921.

No. 13.

## GENERAL SUMMARY.

The first four months of the year 1921 were remarkable for their abnormally high temperature, the remainder of the year developed about the usual amount of irregularity in warmth, but the tendency to abnormal warmth persisted. The distribution of temperature differences and quantity of snow conformed very regularly to the geographic position of the State, and the deficiency of snow corresponded logically with the excess of warmth. The years 1913 and 1921 have been the warmest on record in New Jersey, and this warm year of 1921 has been a remarkable feature of a large portion of North America.

The precipitation has been persistently deficient; it was one of the five driest years of record. Other dry years, however, have usually been subnormal in temperature, one, in 1904, being the lowest, and this contrasts markedly with 1921, which was both warm and dry. The record breaking year for precipitation, 1889, was a little above normal in warmth.

January, February and March were singularly unlike the usual winter weather of this region. Only in extreme northern counties were streams and ponds ice-bound, and sleighing conditions hardly occurred. In central and southern counties the harvest of ice was almost negligible. Other months of the year produced no such abnormal features, except the deficient rainfall of October, which averaged less than an inch.

The distribution of precipitation over the State was fairly equal, except in the extreme southern portions, where the yearly total was about thirty inches.

The mean temperature for the year, 54.1°, was 2.6° above the normal. The warmest month was July, 76.5°, and the coldest, December, 32.3°. The highest temperature was 100° at Waterson on June 22d, and the lowest, 12° below zero at Culvers Lake on February 25th. The highest mean temperature was 76.6° at Vineland, and the lowest, 50.4° at Charlotteburg. The greatest annual range of temperature was 103° at Layton, being from 98° to -5°.

The average precipitation for the State, for the year, was 38.16 inches, which was 8.08 inches below the normal. The greatest monthly average was 4.32 inches in August, and the least, 0.97 inch in October. The greatest monthly precipitation was 8.01 inches at Trenton in August, and the least, 0.33 inch at Long Branch in October. The greatest annual precipitation was 46.78 inches at Dover, and the least, 29.91 inches at Cape May City. The average snowfall for the State was 23.9 inches, which was 7 inches below the normal. The greatest annual snowfall was 9.4 inches at Layton, and the least, 8.0 inches at Atlantic City.

The average number of days on which 0.01 inch or more of precipitation occurred was 115, which was 1 more than the normal. The average number of clear days was 167, which was more than the normal; partly cloudy, 90, which was 26 less than the normal; cloudy, 108, or normal.

The prevailing wind direction was from the southwest; the highest velocity was 72 miles per hour, sustained for 5 consecutive minutes, from the northeast at Long Branch on May 5th. Unimportant occurrences of hail were on June 28th and 29th, August 7th, and November 2d. Minor damage from hail occurred on July 31st and September 3d. Considerable damage from hail occurred at Burlington on June 27th, and at Waterford on July 26th.

## COMPARATIVE ANNUAL DATA FOR THE STATE.

| Year.    | Temperature. |           |          | Average precipitation. | Year.    | Temperature. |           |          | Average precipitation. |
|----------|--------------|-----------|----------|------------------------|----------|--------------|-----------|----------|------------------------|
|          | Mean.        | High-est. | Low-est. |                        |          | Mean.        | High-est. | Low-est. |                        |
| 1885.... | 50.5         | 100       | -2       | 37.87                  | 1904.... | 49.3         | 100       | -34      | 43.78                  |
| 1886.... | 50.2         | 98        | -10      | 46.54                  | 1905.... | 51.3         | 102       | -18      | 42.06                  |
| 1887.... | 51.1         | 102       | -6       | 47.66                  | 1906.... | 52.8         | 98        | -15      | 46.38                  |
| 1888.... | 50.0         | 99        | -12      | 52.20                  | 1907.... | 50.4         | 96        | -22      | 51.65                  |
| 1889.... | 52.8         | 95        | -3       | 53.33                  | 1908.... | 52.6         | 106       | -17      | 42.58                  |
| 1890.... | 53.2         | 101       | 0        | 49.34                  | 1909.... | 52.0         | 100       | -15      | 40.86                  |
| 1891.... | 53.2         | 102       | 1        | 47.98                  | 1910.... | 52.0         | 99        | -15      | 39.73                  |
| 1892.... | 51.4         | 105       | -6       | 42.04                  | 1911.... | 52.6         | 104       | -12      | 50.36                  |
| 1893.... | 50.8         | 103       | -21      | 47.90                  | 1912.... | 51.3         | 100       | -32      | 46.61                  |
| 1894.... | 53.0         | 106       | -11      | 47.37                  | 1913.... | 54.2         | 100       | -11      | 46.99                  |
| 1895.... | 51.7         | 109       | -12      | 37.29                  | 1914.... | 51.4         | 99        | -18      | 39.23                  |
| 1896.... | 51.7         | 105       | -15      | 42.51                  | 1915.... | 52.5         | 98        | -5       | 47.37                  |
| 1897.... | 52.0         | 102       | -6       | 51.72                  | 1916.... | 51.2         | 100       | -18      | 38.17                  |
| 1898.... | 53.2         | 107       | -15      | 52.35                  | 1917.... | 49.6         | 104       | -29      | 40.80                  |
| 1899.... | 52.1         | 103       | -21      | 45.84                  | 1918.... | 51.2         | 108       | -24      | 37.65                  |
| 1900.... | 53.8         | 104       | -9       | 42.71                  | 1919.... | 52.5         | 103       | -18      | 52.10                  |
| 1901.... | 51.4         | 107       | -8       | 51.80                  | 1920.... | 51.2         | 98        | -25      | 51.87                  |
| 1902.... | 51.8         | 100       | -11      | 59.44                  | 1921.... | 54.1         | 100       | -12      | 38.16                  |
| 1903.... | 51.7         | 100       | -16      | 56.25                  |          |              |           |          |                        |

## MONTHLY STATE DATA FOR 1921.

| Month.         | Temperature. |                         |          |         | Precipitation. |                         |           |        |
|----------------|--------------|-------------------------|----------|---------|----------------|-------------------------|-----------|--------|
|                | Mean.        | Depart-ure from normal. | Highest. | Lowest. | Average.       | Depart-ure from normal. | Greatest. | Least. |
| January.....   | 33.0         | +3.0                    | 63       | -11     | 2.63           | -1.03                   | 3.49      | 1.78   |
| February.....  | 34.0         | +4.4                    | 71       | -12     | 3.82           | +0.23                   | 5.82      | 2.58   |
| March.....     | 49.1         | +10.3                   | 92       | 9       | 3.03           | -0.86                   | 4.65      | 1.80   |
| April.....     | 56.3         | +6.8                    | 87       | 15      | 3.57           | -0.11                   | 5.20      | 1.86   |
| May.....       | 60.2         | -0.2                    | 96       | 30      | 4.17           | +0.21                   | 6.44      | 2.60   |
| June.....      | 70.4         | +1.8                    | 100      | 33      | 3.23           | -0.30                   | 5.64      | 1.40   |
| July.....      | 76.5         | +2.8                    | 99       | 49      | 3.62           | -0.99                   | 7.36      | 1.66   |
| August.....    | 69.8         | -2.3                    | 97       | 38      | 4.32           | -0.45                   | 8.01      | 2.05   |
| September..... | 70.2         | +4.5                    | 99       | 35      | 2.35           | -1.26                   | 5.04      | 0.80   |
| October.....   | 54.1         | -0.9                    | 82       | 16      | 0.97           | -2.76                   | 2.15      | 0.33   |
| November.....  | 44.3         | +1.2                    | 79       | 18      | 4.26           | +1.17                   | 6.69      | 2.79   |
| December.....  | 32.3         | -0.5                    | 64       | -9      | 2.37           | -1.62                   | 3.23      | 1.62   |
| Year.....      | 54.1         | +2.6                    | 100      | -12     | 38.16          | -8.08                   | 8.21      | 0.33   |

\* Mean of 33 stations.

\*\* Mean of the sums of 31 stations.

## KILLING FROSTS.

| Stations.                                   | Last in spring. | First in autumn. | Stations.                     | Last in spring. | First in autumn. |
|---------------------------------------------|-----------------|------------------|-------------------------------|-----------------|------------------|
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  | <i>The Southern Interior.</i> |                 |                  |
| Belvidere.....                              | Apr. 18         | Oct. 27          | South Orange.....             | Apr. 2          | Oct. 27          |
| Charlotteburg.....                          | May 24          | do. 9            | <i>The Sea Coast.</i>         |                 |                  |
| Culvers Lake.....                           | do. 17          | do. 9            | Asbury Park.....              | Apr. 2          | Nov. 6           |
| Dover.....                                  | Apr. 20         | do. 27           | Atlantic City.....            | Mar. 29         | do. 13           |
| Layton.....                                 | do. 20          | do. 9            | Cape May City.....            | Apr. 11         | Dec. 5           |
| Newton.....                                 | do. 12          | do. 26           | Long Branch.....              | do. 12          | Oct. 27          |
| Sussex.....                                 | do. 12          | do. 9            | Sandy Hook.....               | Mar. 29         | Nov. 13          |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                               |                 |                  |
| Bergen Point.....                           | Apr. 2          | Nov. 6           |                               |                 |                  |
| Boonton.....                                | do. 12          | Oct. 27          |                               |                 |                  |
| Elizabeth.....                              | do. 12          | do. 27           |                               |                 |                  |
| Flemington.....                             | do. 12          | do. 26           |                               |                 |                  |
| Highwood.....                               | do. 12          | do. 13           |                               |                 |                  |
| Jersey City.....                            | do. 2           | Nov. 13          |                               |                 |                  |
| Kearny.....                                 | do. 11          | Oct. 27          |                               |                 |                  |
| Lambertville.....                           | do. 26          | do. 26           |                               |                 |                  |
| Little Falls.....                           | Apr. 2          | do. 26           |                               |                 |                  |
| Newark.....                                 | do. 11          | Nov. 13          |                               |                 |                  |
| New Brunswick.....                          | do. 11          | Oct. 16          |                               |                 |                  |
| Paterson.....                               | do. 2           | do. 26           |                               |                 |                  |
| Plainfield.....                             | do. 12          | do. 9            |                               |                 |                  |
| Ridgefield.....                             | do. 12          | do. 9            |                               |                 |                  |
| Somerville.....                             | do. 2           | do. 27           |                               |                 |                  |



## Climatological Data for the Year 1921.

| STATION.                             | Counties.       | Elevation, feet. | Temperature (degrees Fahrenheit). |              |          |          |         |          | Precipitation (inches).  |                     |                   |        |                |        |                    | Total snowfall (unmelted). | Number days with .01 or more. | Sky.                       |                     |       | Prevailing direction of wind. |
|--------------------------------------|-----------------|------------------|-----------------------------------|--------------|----------|----------|---------|----------|--------------------------|---------------------|-------------------|--------|----------------|--------|--------------------|----------------------------|-------------------------------|----------------------------|---------------------|-------|-------------------------------|
|                                      |                 |                  | Length of record, years.          | Annual mean. | Highest. | Date.    | Lowest. | Date.    | Length of record, years. | Total for the year. | Greatest monthly. | Month. | Least monthly. | Month. | Number clear days. |                            |                               | Number partly cloudy days. | Number cloudy days. |       |                               |
| The Highlands and Kittatinny Valley. |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                    |                            |                               |                            |                     |       |                               |
| Belvidere.....                       | Warren.....     | 289              | 30                                | 53.1         | 94       | June 22† | -1      | Feb. 25  | 30                       | 41.02               | 5.21              | Nov    | 1.87           | Oct.   | 30.3               | 96                         | 240                           | 37                         | 88                  | ..... |                               |
| Charlotteburg.....                   | Passaic.....    | 719              | 29                                | 50.4         | 94       | do. 22   | -5      | Jan. 19  | 29                       | .....               | 6.19              | July   | 1.45           | do.    | .....              | .....                      | .....                         | .....                      | .....               | sw.   |                               |
| Culvers Lake.....                    | Sussex.....     | 848              | .....                             | .....        | .....    | .....    | -12     | Feb. 25  | 20                       | 39.82               | 5.06              | Nov    | 2.05           | Aug.   | 34.3               | 132                        | 191                           | 82                         | 92                  | se.   |                               |
| Dover.....                           | Morris.....     | 600              | 37                                | 51.5         | 96       | June 22  | -5      | Jan. 19  | 37                       | 46.78               | 6.33              | do.    | 1.54           | Oct.   | 33.4               | 116                        | 70                            | 197                        | 93                  | ..... |                               |
| Layton.....                          | Sussex.....     | 480              | 20                                | 51.2         | 98       | Sept. 2  | -5      | Feb. 25  | 20                       | 40.63               | 5.17              | do.    | 1.51           | do.    | 39.4               | 124                        | 176                           | 60                         | 129                 | sw.   |                               |
| Newton.....                          | Sussex.....     | 769              | 38                                | 51.8         | 96       | June 27  | -3      | Jan. 25  | 35                       | 39.47               | 5.16              | June   | 2.05           | do.    | 35.8               | 123                        | .....                         | .....                      | .....               | sw.   |                               |
| Phillipsburg.....                    | Warren.....     | 363              | 30                                | .....        | .....    | .....    | .....   | .....    | 38                       | .....               | .....             | .....  | .....          | .....  | .....              | .....                      | .....                         | .....                      | .....               | sw.   |                               |
| Sussex.....                          | Sussex.....     | 442              | 24                                | .....        | .....    | .....    | -4      | Feb. 21  | 27                       | .....               | 5.04              | Sept   | 1.57           | Oct.   | .....              | .....                      | .....                         | .....                      | .....               | ..... |                               |
| Means and extremes.....              |                 | .....            | .....                             | 51.8         | 98       | Sept. 2  | -12     | Feb. 25  | .....                    | 41.54               | 6.33              | Nov    | 1.45           | Oct.   | 34.6               | 118                        | 169                           | 94                         | 102                 | sw.   |                               |
| The Red Sandstone Plain.             |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                    |                            |                               |                            |                     |       |                               |
| Bergen Point.....                    | Hudson.....     | 37               | 24                                | 54.3         | 96       | June 22  | 4       | Jan. 19† | 24                       | .....               | .....             | .....  | 0.91           | Oct.   | 29.5               | .....                      | .....                         | .....                      | .....               | nw.   |                               |
| Boonton.....                         | Morris.....     | 400              | 13                                | 51.9         | 95       | July 4   | -1      | do. 19†  | 31                       | 39.36               | 4.47              | May    | 0.99           | do.    | .....              | 115                        | .....                         | .....                      | .....               | ne.   |                               |
| Chatham.....                         | Morris.....     | 185              | .....                             | .....        | .....    | .....    | .....   | .....    | 17                       | 41.13               | 5.56              | Nov    | 0.84           | do.    | .....              | 124                        | 194                           | 90                         | 81                  | ..... |                               |
| Elizabeth.....                       | Union.....      | 45               | 41                                | 54.9         | 98       | June 22  | 2       | Jan. 19  | 42                       | 39.11               | 5.14              | May    | 1.27           | do.    | 28.5               | 110                        | 148                           | 135                        | 82                  | w.    |                               |
| Flemington.....                      | Hunterdon.....  | 140              | 24                                | 54.9         | 97       | do. 22   | 0       | Feb. 25  | 35                       | .....               | 6.24              | July   | 0.93           | do.    | 25.0               | .....                      | .....                         | .....                      | .....               | w.    |                               |
| Highwood.....                        | Bergen.....     | 90               | 31                                | 52.0         | 93       | do. 22   | -3      | do. 25   | 33                       | 39.01               | 4.74              | Apr.   | 1.03           | do.    | .....              | 119                        | 143                           | 105                        | 117                 | sw.   |                               |
| Jersey City.....                     | Hudson.....     | 10               | 23                                | 55.9         | 97       | do. 22†  | 5       | Jan. 19  | 23                       | 35.63               | 4.73              | Feb.   | 0.76           | do.    | 27.4               | 116                        | 135                           | 127                        | 103                 | s.    |                               |
| Kearny.....                          | Hudson.....     | 100              | 2                                 | .....        | 96       | do. 22   | .....   | .....    | 2                        | .....               | .....             | .....  | 0.72           | do.    | .....              | .....                      | .....                         | .....                      | .....               | s.    |                               |
| Lambertville.....                    | Hunterdon.....  | 300              | 34                                | .....        | .....    | .....    | 0       | Feb. 25  | 34                       | .....               | .....             | .....  | 0.76           | do.    | .....              | .....                      | .....                         | .....                      | .....               | ..... |                               |
| Little Falls.....                    | Passaic.....    | 180              | 7                                 | 54.3         | 98       | June 22  | 4       | Dec. 30  | 18                       | 42.62               | 5.82              | Feb.   | 0.64           | do.    | .....              | 129                        | 167                           | 94                         | 104                 | nw.   |                               |
| Newark.....                          | Essex.....      | 159              | 79                                | 54.6         | 97       | do. 22†  | 4       | Jan. 19† | 79                       | 41.57               | 5.26              | June   | 0.69           | do.    | 33.0               | 122                        | 136                           | 133                        | 96                  | sw.   |                               |
| New Brunswick.....                   | Middlesex.....  | 110              | 64                                | 54.8         | 96       | do. 22   | 2       | do. 19   | 68                       | 42.16               | 7.36              | July   | 0.53           | do.    | .....              | 113                        | 209                           | 85                         | 71                  | w.    |                               |
| New Milford.....                     | Bergen.....     | .....            | 3                                 | .....        | .....    | .....    | .....   | .....    | 3                        | .....               | .....             | .....  | 0.84           | do.    | .....              | .....                      | .....                         | .....                      | .....               | ..... |                               |
| Paterson.....                        | Passaic.....    | 80               | 46                                | 55.4         | 100      | June 22  | 4       | Jan. 19  | 50                       | 33.22               | 4.05              | Nov    | 0.69           | do.    | 27.0               | 107                        | 74                            | 27                         | 264                 | sw.   |                               |
| Plainfield.....                      | Somerset.....   | 110              | 30                                | 52.6         | 96       | do. 22   | -8      | Feb. 25  | 33                       | 41.42               | 6.32              | July   | 0.76           | do.    | 28.5               | 124                        | 142                           | 131                        | 92                  | sw.   |                               |
| Ridgefield.....                      | Bergen.....     | 70               | 6                                 | 52.4         | 94       | do. 22   | 1       | Jan. 19  | 6                        | 37.48               | 4.72              | May    | 0.74           | do.    | 31.2               | 125                        | 158                           | 112                        | 95                  | nw.   |                               |
| Somerville.....                      | Somerset.....   | 74               | 37                                | .....        | 97       | do. 22   | .....   | .....    | 38                       | .....               | .....             | .....  | 0.67           | do.    | .....              | .....                      | .....                         | .....                      | .....               | ..... |                               |
| South Orange.....                    | Essex.....      | 200              | 51                                | 53.4         | 93       | do. 22†  | 3       | Jan. 19† | 51                       | 40.89               | 5.44              | May    | 0.69           | do.    | 31.7               | 109                        | 206                           | 84                         | 75                  | w.    |                               |
| Woodcliff Lake.....                  | Bergen.....     | 3                | .....                             | .....        | .....    | .....    | .....   | .....    | 3                        | .....               | .....             | .....  | 0.36           | do.    | .....              | .....                      | .....                         | .....                      | .....               | ..... |                               |
| New York, N. Y.....                  | .....           | 365              | 51                                | 54.6         | 93       | June 22† | 4       | Jan. 25† | 51                       | 34.38               | 4.90              | Feb.   | 0.74           | do.    | 23.5               | 113                        | 92                            | 139                        | 134                 | s.    |                               |
| Means and extremes.....              |                 | .....            | .....                             | 54.0         | 100      | June 11  | -3      | Feb. 25  | .....                    | 39.47               | 7.36              | July   | 0.36           | Oct.   | 2.91               | 118                        | 156                           | 102                        | 107                 | w.    |                               |
| The Southern Interior.               |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                    |                            |                               |                            |                     |       |                               |
| Bridgeton.....                       | Cumberland..... | 30               | 35                                | 57.3         | 99       | Sept. 2  | 7       | Jan. 19  | 40                       | 32.08               | 3.97              | Nov    | 0.98           | Oct    | 20.0               | 93                         | 235                           | 33                         | 97                  | sw.   |                               |
| Burlington.....                      | Burlington..... | 12               | 9                                 | 56.3         | 98       | do. 3    | 5       | do. 19   | 35                       | 40.22               | 7.48              | Aug.   | 0.43           | do.    | 21.7               | 118                        | 248                           | 39                         | 78                  | sw.   |                               |
| Camp Dix.....                        | Burlington..... | 127              | 3                                 | 54.9         | 97       | June 22† | 1       | do. 19   | 3                        | .....               | 4.84              | May    | 0.84           | do.    | .....              | .....                      | 61                            | 48                         | 256                 | ne.   |                               |
| Clayton.....                         | Gloucester..... | 130              | 24                                | .....        | 98       | July 9   | 5       | do. 19   | 28                       | .....               | .....             | .....  | 0.88           | do.    | .....              | .....                      | .....                         | .....                      | .....               | ..... |                               |
| Hammonton.....                       | Atlantic.....   | 103              | .....                             | .....        | .....    | .....    | .....   | .....    | 20                       | 39.84               | 4.93              | Aug.   | 0.79           | do.    | .....              | 113                        | 217                           | 78                         | 70                  | s.    |                               |
| Hightstown.....                      | Mercer.....     | 120              | 28                                | 54.1         | 96       | June 22  | 0       | Jan. 19  | 29                       | .....               | 6.70              | do.    | 0.84           | do.    | .....              | .....                      | 230                           | 60                         | 75                  | nw.   |                               |
| Imlaystown.....                      | Monmouth.....   | 115              | 30                                | 54.5         | 97       | do. 22   | 3       | do. 19   | 33                       | .....               | 5.58              | do.    | 0.66           | do.    | .....              | .....                      | 211                           | 60                         | 94                  | sw.   |                               |
| Indian Mills.....                    | Burlington..... | 76               | 32                                | 54.6         | 97       | do. 22   | 0       | do. 19   | 31                       | 36.14               | 4.71              | Apr.   | 0.64           | do.    | 21.8               | 113                        | 146                           | 110                        | 109                 | nw.   |                               |
| Lakewood.....                        | Ocean.....      | 54               | 17                                | 54.0         | 99       | do. 22   | 2       | do. 19   | 17                       | 36.86               | 5.17              | Feb.   | 0.81           | do.    | 17.5               | 110                        | 168                           | 63                         | 134                 | sw.   |                               |
| Moorestown.....                      | Burlington..... | 75               | 58                                | 56.0         | 99       | do. 22   | 4       | do. 19   | 58                       | .....               | .....             | .....  | 0.97           | do.    | 20.0               | .....                      | .....                         | .....                      | .....               | ..... |                               |
| Northfield.....                      | Atlantic.....   | 25               | .....                             | .....        | .....    | .....    | .....   | .....    | 14                       | 35.91               | 5.87              | Nov    | 1.33           | do.    | 9.0                | 114                        | .....                         | .....                      | .....               | ..... |                               |
| Pleasantville.....                   | Atlantic.....   | 26               | .....                             | .....        | .....    | .....    | .....   | .....    | 23                       | 34.95               | 5.83              | do.    | 1.14           | Sept.  | .....              | 109                        | 244                           | 28                         | 93                  | ..... |                               |
| Trenton.....                         | Mercer.....     | 190              | 49                                | 54.6         | 95       | July 4   | 4       | Jan. 19  | 49                       | 35.73               | 8.01              | Aug.   | 0.34           | Oct.   | 24.4               | 118                        | 98                            | 119                        | 148                 | w.    |                               |
| Tuckerton.....                       | Ocean.....      | 23               | 23                                | 55.5         | 97       | do. 4    | 2       | do. 19   | 28                       | 38.86               | 5.57              | Nov    | 1.09           | do.    | 13.5               | 100                        | 183                           | 107                        | 75                  | sw.   |                               |
| Vineland.....                        | Cumberland..... | 109              | 52                                | 57.6         | 99       | do. 4    | 5       | do. 19   | 52                       | 35.57               | 5.51              | do.    | 0.62           | do.    | .....              | 105                        | .....                         | .....                      | .....               | sw.   |                               |
| Woodbine.....                        | Cape May.....   | 43               | 26                                | .....        | .....    | .....    | .....   | .....    | 27                       | .....               | .....             | .....  | .....          | .....  | .....              | .....                      | .....                         | .....                      | .....               | ..... |                               |
| Philadelphia, Pa.....                | .....           | 117              | 50                                | 57.0         | 96       | July 4   | 7       | Jan. 19  | 50                       | 35.45               | 6.01              | Aug.   | 0.40           | Oct.   | 16.8               | 119                        | 105                           | 111                        | 149                 | nw.   |                               |
| Means and extremes.....              |                 | .....            | .....                             | 55.4         | 99       | June 22† | 0       | Jan. 19  | .....                    | 36.62               | 8.01              | Aug.   | 0.34           | Oct.   | 18.5               | 110                        | 185                           | 68                         | 112                 | sw.   |                               |
| The Sea Coast.                       |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                    |                            |                               |                            |                     |       |                               |
| Asbury Park.....                     | Monmouth.....   | 22               | 31                                | .....        | 95       | Sept. 2  | 4       | Jan. 19  | 32                       | .....               | .....             | .....  | 0.46           | Oct.   | 8.2                | .....                      | 176                           | 118                        | 71                  | ne.   |                               |
| Atlantic City.....                   | Atlantic.....   | 16               | 48                                | 54.8         | 94       | June 24  | 8       | do. 19   | 48                       | 35.93               | 6.69              | Nov    | 1.37           | do.    | 8.0                | 112                        | 151                           | 94                         | 120                 | sw.   |                               |
| Cape May City.....                   | Cape May.....   | 17               | 37                                | 55.8         | 95       | July 4   | 7       | do. 19   | 37                       | 29.91               | 3.35              | May    | 0.80           | Sept.  | 8.9                | 121                        | 152                           | 83                         | 130                 | s.    |                               |
| Long Branch.....                     | Monmouth.....   | 25               | 14                                | 52.6         | 97       | do. 28   | 5       | do. 19   | 14                       | 35.73               | 5.54              | July   | 0.33           | Oct.   | 20.8               | 104                        | 181                           | 102                        | 82                  | nw.   |                               |
| Sandy Hook.....                      | Monmouth.....   | 22               | 23                                | 54.2         | 92       | do. 4    | 8       | do. 25   | 23                       | 33.97               | 6.42              | do.    | 0.49           | do.    | 16.7               | 115                        | 103                           | 144                        | 118                 | sw.   |                               |
| Means and extremes.....              |                 | .....            | .....                             | 54.2         | 97       | July 28  | 4       | Jan. 19  | .....                    | 33.88               | 6.69              | Nov    | 0.33           | Oct.   | 12.5               | 113                        | 153                           | 108                        | 104                 | sw.   |                               |
| For the State.....                   |                 | .....            | .....                             | 54.1         | 100      | June 22  | -12     | Feb. 25  | .....                    | 38.16               | 8.01              | Aug.   | 0.33           | Oct.   | 23.9               | 115                        | 167                           | 90                         | 108                 | sw.   |                               |

† Also on other dates.



Monthly and Annual Precipitation for the Year 1921, with Departures from the Normal.

| STATIONS.                                   | January.       |            | February.      |            | March.         |            | April.         |            | May.           |            | June.          |            | July.          |            | August.        |            | September.     |            | October.       |            | November.      |            | December.      |            | Annual.        |            |
|---------------------------------------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|
|                                             | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. | Precipitation. | Departure. |
| <i>The Highlands and Kittatinny Valley.</i> |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |
| Belyidere.....                              | 2.81           | -0.73      | 4.13           | +0.29      | 3.40           | -0.45      | 3.54           | -0.12      | 2.99           | -0.84      | 3.54           | -0.46      | 3.31           | -1.67      | 4.42           | -0.19      | 2.98           | -0.79      | 1.87           | -1.80      | 5.21           | +1.97      | 2.82           | -1.25      | 41.02          | -6.04      |
| Charlotteburg.....                          | 2.72           | -0.83      | .....          | .....      | 3.76           | -0.44      | 4.52           | +0.20      | 3.94           | -0.26      | 4.64           | +0.52      | 6.19           | +1.36      | 3.70           | -0.92      | 3.87           | -0.55      | 1.45           | -3.02      | 4.79           | +1.27      | 2.74           | -1.59      | .....          | .....      |
| Culvers Lake.....                           | 2.51           | -0.67      | 3.18           | +0.12      | 2.92           | -0.55      | 3.20           | -0.62      | 3.75           | +0.12      | 4.62           | +0.01      | 3.75           | -0.82      | 2.05           | -2.37      | 4.06           | -0.48      | 2.18           | -2.00      | .....          | .....      | 2.54           | -1.12      | 39.82          | -6.12      |
| Dover.....                                  | 3.49           | -0.90      | 4.07           | +0.04      | 4.65           | +0.66      | 4.34           | +0.58      | 4.21           | +0.27      | 4.62           | +0.59      | 2.78           | -2.49      | 3.46           | -1.30      | 4.06           | -0.03      | 1.54           | -2.53      | 6.33           | +2.69      | 3.23           | -1.07      | 46.78          | -3.49      |
| Layton.....                                 | 2.79           | -0.10      | 3.56           | +0.82      | 3.53           | +0.16      | 4.54           | +0.93      | 3.26           | +0.01      | 2.68           | -1.11      | 3.93           | -0.16      | 3.07           | -0.83      | 4.22           | +0.30      | 1.51           | -2.11      | 5.17           | +2.68      | 2.37           | -1.57      | 40.63          | -0.98      |
| Newton.....                                 | 2.72           | -0.89      | 3.86           | +0.30      | 2.49           | -1.08      | 3.22           | -0.15      | 2.85           | -1.08      | 5.16           | +1.18      | 3.35           | -1.61      | 2.56           | -1.86      | 4.21           | +0.40      | 2.05           | -1.58      | 4.60           | +1.47      | 2.40           | -1.31      | 39.47          | -6.21      |
| Phillipsburg.....                           | 3.06           | -0.54      | 3.24           | -0.40      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | 1.95           | -1.79      | .....          | .....      |
| Sussex.....                                 | 2.71           | -0.77      | 2.69           | -0.69      | 3.13           | -0.46      | 2.94           | -0.50      | 3.64           | -0.08      | 3.67           | -0.01      | 3.74           | -0.66      | .....          | .....      | 5.04           | +1.14      | 1.57           | -1.87      | 4.25           | +1.00      | .....          | .....      | .....          | .....      |
| <i>The Red Sandstone Plain.</i>             |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |
| Bergen Point.....                           | 2.38           | -1.51      | 3.25           | -0.73      | 2.68           | -1.32      | 4.44           | +0.05      | 4.65           | +0.69      | .....          | .....      | .....          | .....      | 4.08           | -0.98      | 2.52           | -1.01      | 0.91           | -3.76      | .....          | .....      | 1.62           | -2.76      | .....          | .....      |
| Boonton.....                                | 3.10           | -0.78      | 3.22           | -0.75      | 3.65           | -0.29      | 4.32           | +0.33      | 4.47           | +0.41      | 3.48           | -0.19      | 2.22           | -2.68      | 3.65           | -1.43      | 3.56           | -0.57      | 0.99           | -2.92      | 4.20           | +0.63      | 2.50           | -1.48      | 39.36          | -8.67      |
| Chatham.....                                | 3.07           | -0.62      | 4.37           | +0.94      | 2.75           | -0.99      | 3.73           | -0.37      | 5.45           | +1.95      | 3.59           | -0.47      | 2.24           | -2.20      | 5.05           | +0.64      | 1.34           | -2.95      | 0.84           | -3.53      | 5.66           | +2.61      | 3.14           | -0.96      | 41.13          | -5.95      |
| Elizabeth.....                              | 2.72           | -1.32      | 5.01           | +0.84      | 2.55           | -1.67      | 2.97           | -0.71      | 5.14           | +1.32      | 3.21           | -0.41      | 4.17           | -0.99      | 3.89           | -0.40      | 1.84           | -1.93      | 1.27           | -2.62      | 3.92           | +0.67      | 2.42           | -1.54      | 39.11          | -8.76      |
| Flemington.....                             | 3.31           | -0.88      | 3.72           | +0.18      | .....          | .....      | 3.90           | +0.38      | 3.29           | -0.73      | 2.68           | -1.16      | 6.24           | +1.02      | 3.28           | -1.43      | 2.28           | -1.62      | 0.93           | -2.73      | 4.43           | +1.31      | 2.57           | -1.19      | .....          | .....      |
| Highwood.....                               | 2.91           | -0.98      | 4.33           | +0.07      | 3.08           | -1.10      | 4.74           | +1.21      | 4.46           | +0.63      | 3.10           | -0.59      | 2.96           | -1.99      | 3.89           | -0.86      | 2.29           | -1.63      | 1.03           | -3.39      | 3.97           | +0.47      | 2.25           | -1.96      | 39.01          | -10.02     |
| Jersey City.....                            | 2.40           | -1.10      | 4.73           | +1.01      | 2.39           | -1.76      | 2.71           | -1.45      | 4.23           | +0.65      | 3.41           | -0.09      | 1.99           | -2.45      | 4.36           | -0.17      | 2.50           | -0.85      | 0.76           | -2.92      | 4.16           | +0.97      | 1.99           | -1.94      | 35.63          | -10.10     |
| Kearny.....                                 | 2.43           | .....      | .....          | .....      | 2.40           | .....      | 3.77           | .....      | 4.32           | .....      | 3.39           | .....      | 2.68           | .....      | 3.37           | .....      | 2.18           | .....      | 0.72           | .....      | 3.49           | .....      | 2.41           | .....      | .....          | .....      |
| Lambertville.....                           | 2.13           | -1.52      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | 6.07           | +1.41      | 1.64           | -2.25      | 0.76           | -2.72      | 4.37           | +1.16      | 2.27           | -1.60      | .....          | .....      |
| Little Falls.....                           | 3.45           | -0.25      | 5.82           | +2.35      | 3.58           | -0.01      | 4.10           | -0.02      | 5.14           | +1.35      | 3.06           | -0.46      | 2.30           | -2.09      | 5.02           | +0.62      | 1.93           | -1.65      | 0.64           | -3.87      | 4.91           | +2.01      | 2.67           | -1.42      | 42.62          | -3.44      |
| Newark.....                                 | 2.67           | -1.09      | 4.94           | +1.32      | 4.60           | +0.73      | 2.50           | -1.24      | 5.19           | +1.22      | 5.26           | +1.50      | 2.33           | -2.48      | 4.11           | -0.96      | 3.50           | -0.26      | 0.69           | -3.18      | 3.53           | +0.06      | 2.25           | -1.63      | 41.57          | -6.01      |
| New Brunswick.....                          | 2.63           | -1.18      | 3.59           | -0.03      | 2.28           | -1.53      | 2.34           | -1.40      | 6.44           | +2.55      | 1.92           | -1.84      | 7.36           | +2.34      | 6.96           | +1.81      | 2.27           | -1.33      | 0.53           | -3.05      | 3.55           | +0.08      | 2.29           | -1.38      | 42.16          | -4.95      |
| New Milford.....                            | 3.02           | .....      | 2.48           | .....      | 3.07           | .....      | 4.47           | .....      | 3.61           | .....      | 3.04           | .....      | 3.93           | .....      | 4.56           | .....      | 2.06           | .....      | 0.84           | .....      | .....          | .....      | .....          | .....      | .....          | .....      |
| Paterson.....                               | 3.09           | -0.76      | 3.95           | -0.26      | 2.71           | -1.67      | 3.04           | -0.52      | 3.82           | -0.65      | 2.32           | -1.80      | 1.66           | -3.36      | 3.98           | -0.75      | 1.66           | -2.47      | 0.69           | -3.40      | 4.05           | +0.88      | 2.25           | -1.81      | 33.62          | -16.54     |
| Plainfield.....                             | 2.51           | -1.51      | 3.78           | -0.18      | 2.34           | -1.93      | 2.98           | -0.92      | 4.72           | +0.80      | 5.64           | +1.90      | 6.32           | +0.49      | 4.28           | -0.93      | 2.00           | -2.37      | 0.76           | -3.39      | 3.74           | +0.37      | 2.35           | -1.71      | 41.42          | -9.38      |
| Ridgefield.....                             | 3.06           | .....      | 4.01           | .....      | 2.74           | .....      | 3.84           | .....      | 4.72           | .....      | 2.94           | .....      | 2.18           | .....      | 4.34           | .....      | 2.85           | .....      | 0.74           | .....      | 3.58           | .....      | 2.48           | .....      | 37.48          | .....      |
| Somerville.....                             | .....          | .....      | 3.63           | -0.15      | 1.80           | -2.16      | 3.26           | -0.23      | 4.46           | +0.61      | 2.74           | -1.00      | 5.84           | +0.73      | 3.46           | -1.38      | 3.45           | -0.20      | 0.67           | .....      | .....          | .....      | .....          | .....      | .....          | .....      |
| South Orange.....                           | 3.21           | -0.82      | 4.95           | +1.02      | 2.87           | -0.99      | 3.27           | -0.30      | 5.44           | +1.92      | 4.15           | +0.60      | 2.58           | -2.48      | 4.54           | -0.54      | 2.18           | -1.63      | 0.69           | -3.15      | 4.17           | +0.87      | 2.84           | -1.08      | 40.89          | -6.53      |
| Woodcliff Lake.....                         | .....          | .....      | .....          | .....      | .....          | .....      | 4.60           | .....      | 4.63           | .....      | 4.01           | .....      | 1.49           | .....      | 4.05           | .....      | 1.15           | .....      | 0.36           | .....      | .....          | .....      | .....          | .....      | .....          | .....      |
| New York, N. Y.....                         | 1.65           | -2.14      | 4.90           | +1.16      | 2.21           | -1.89      | 2.88           | -0.42      | 3.45           | +0.27      | 3.25           | -0.01      | 3.10           | -1.44      | 3.87           | -0.66      | 2.96           | -0.63      | 0.74           | -2.97      | 3.48           | +0.04      | 1.89           | -1.56      | 34.38          | -10.25     |
| <i>The Southern Interior.</i>               |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |
| Bridgeton.....                              | 2.26           | -1.26      | 2.58           | -1.24      | 3.42           | -0.76      | 3.26           | -0.26      | 2.73           | -1.11      | 1.85           | -1.88      | 3.59           | -0.90      | 3.18           | -1.41      | 1.99           | -1.32      | 0.98           | -2.61      | 3.97           | +1.97      | 2.27           | -1.55      | 32.08          | -13.13     |
| Burlington.....                             | 3.21           | -0.19      | 3.67           | +0.17      | 2.55           | -1.14      | 4.09           | +0.38      | 3.81           | -0.47      | 3.76           | -0.24      | 3.17           | -1.66      | 7.48           | +1.97      | 1.80           | -1.69      | 0.43           | -3.25      | 3.99           | +0.89      | 2.26           | -2.11      | 40.22          | -7.34      |
| Camp Dix.....                               | .....          | .....      | 2.86           | .....      | 3.64           | .....      | 3.91           | .....      | 4.84           | .....      | 3.00           | .....      | 2.48           | .....      | 3.73           | .....      | 1.89           | .....      | 0.84           | .....      | 3.84           | .....      | 1.99           | .....      | .....          | .....      |
| Layton.....                                 | .....          | .....      | 3.41           | -0.17      | 2.77           | -0.81      | 3.40           | -0.08      | 4.45           | +1.12      | .....          | .....      | 2.67           | -2.18      | 5.17           | +0.25      | 3.01           | -0.43      | 0.88           | -2.45      | .....          | .....      | .....          | .....      | .....          | .....      |
| Lammonton.....                              | 1.78           | -1.99      | 3.97           | +0.56      | 3.57           | -0.02      | 4.35           | +0.43      | 4.92           | +0.64      | 3.39           | -0.13      | 3.44           | -1.27      | 4.93           | +0.95      | 2.27           | -0.92      | 0.79           | -2.76      | 3.97           | +0.65      | 2.46           | -5.02      | 39.84          | -5.02      |
| Lightstown.....                             | 2.75           | -0.52      | .....          | .....      | 3.41           | -0.63      | 4.44           | +0.53      | 5.07           | +1.12      | 2.87           | -0.73      | 5.61           | +0.62      | 6.70           | +2.12      | 1.62           | -1.51      | 0.84           | -2.87      | 3.38           | +0.07      | 3.14           | -0.54      | .....          | .....      |
| Maytown.....                                | 3.04           | -0.50      | .....          | .....      | 2.84           | -1.24      | 3.53           | +0.09      | 5.01           | +1.39      | 2.13           | -1.64      | 2.43           | -2.33      | 5.58           | +0.81      | 1.62           | -2.20      | 0.66           | -3.20      | 3.56           | +0.36      | 2.56           | -1.11      | .....          | .....      |
| Indian Mills.....                           | 2.34           | -1.48      | 4.38           | +0.93      | 3.28           | -0.75      | 4.71           | +1.28      | 2.60           | -0.64      | 2.80           | -1.33      | 3.58           | -1.08      | 4.16           | -1.77      | 1.87           | -2.04      | 0.64           | -2.80      | 3.16           | +0.08      | 2.62           | -1.78      | 26.14          | -11.38     |
| Lakewood.....                               | 2.82           | -0.86      | 5.17           | +1.60      | 3.14           | -0.84      | 3.56           | -0.11      | 5.02           | +1.62      | 2.88           | -0.83      | 2.45           | -2.40      | 3.49           | -2.56      | 1.59           | -1.20      | 0.81           | -2.78      | 3.77           | +1.29      | 2.16           | -2.48      | 36.86          | -9.53      |
| Moorestown.....                             | 2.09           | -1.37      | .....          | .....      | 2.67           | -1.09      | 3.06           | -0.23      | .....          | .....      | 3.67           | -0.05      | 3.46           | -1.22      | 5.42           | +0.53      | 2.41           | -1.22      | 0.97           | -2.60      | 4.03           | +0.78      | .....          | .....      | .....          | .....      |
| Northfield.....                             | 1.79           | -1.74      | 3.05           | +0.26      | 2.95           | -0.54      | 3.73           | +0.27      | 4.14           | +0.67      | 1.40           | -2.27      | 4.22           | +0.62      | 3.99           | -0.36      | 1.39           | -1.11      | 1.33           | -1.45      | 5.87           | +3.49      | 2.05           | -2.07      | 35.91          | -4.23      |
| Pleasantville.....                          | 1.96           | -1.20      | 3.67           | +0.86      | 2.82           | -0.64      | 3.57           | +0.22      | 3.19           | -0.07      | 1.52           | -2.41      | 3.93           | -0.05      | 4.42           | -0.51      | 1.14           | -1.98      | 1.15           | -2.29      | 5.83           | +3.11      | 1.75           | -2.49      | 34.95          | -7.46      |
| Prentiss.....                               | 2.41           | -0.76      | 3.44           | +0.25      | 2.42           | -1.62      | 1.86           | -1.43      | 4.04           | +0.52      | 4.83           | +1.34      | 2.01           | -2.76      | 8.01           | +2.64      | 1.69           | -1.90      | 0.34           | -3.07      | 2.83           | -0.60      | 1.85           | -1.31      | 35.73          | -10.04     |
| Rockertown.....                             | 2.47           | -1.16      | 4.52           | +0.86      | 4.30           | +0.05      | 2.74           | -1.00      | 3.01           | -0.73      | 2.79           | -1.04      | 3.94           | +0.06      | 4.36           | -1.18      | 1.86           | -1.20      | 1.09           | -2.44      | 5.57           | +2.49      | 2.21           | -2.30      | 38.86          | -7.59      |
| Shelton.....                                | 2.13           | -1.89      | 3.11           | -0.61      | 3.93           | -0.03      | 3.75           | +0.35      | 3.38           | -0.25      | 1.52           | -2.05      | 2.90           | -1.67      | 4.17           | -0.64      | 2.10           | -1.59      | 0.62           | -2.72      | 5.51           | +2.40      | 2.45           | -1.37      | 35.57          | -10.07     |
| Woodbine.....                               | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      | .....          | .....      |
| Philadelphia, Pa.....                       | 2.03           | -1.38      | 4.40           | +1.02      | 2.44           | -1.01      | 1.85           | -1.06      | 3.42           | +0.22      | 2.86           | -0.44      | 4.04           | -0.29      | 6.01           | +1.40      | 2.21           | -1.17      | 0.40           | -2.70      | 3.69           | +0.63      | 2.10           | -0.94      | 35.45          | -5.72      |
| <i>The Sea Coast.</i>                       |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |
| Asbury Park.....                            | 2.82           | -0.75      | .....          | .....      | 3.33           | -0.90      | 3.             |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |



Monthly and Annual Mean Temperatures for the Year 1921, with Departures from the Normal.

| STATIONS.                                   | January.          |            | February.         |            | March.            |            | April.            |            | May.              |            | June.             |            | July.             |            | August.           |            | September.        |            | October.          |            | November.         |            | December.         |            | Annual.      |            |
|---------------------------------------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|-------------------|------------|--------------|------------|
|                                             | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature.      | Departure. | Temperature. | Departure. |
| <i>The Highlands and Kittatinny Valley.</i> |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |              |            |
| Belvidere.....                              | 30.7              | +3.4       | 31.7              | +4.6       | 48.1              | +10.0      | 57.4              | +7.6       | <sup>a</sup> 60.8 | +0.1       | 70.3              | +1.5       | 75.6              | +2.4       | 68.0              | -3.0       | 68.3              | +3.6       | 52.8              | -1.0       | 42.4              | +1.3       | <sup>a</sup> 30.6 | 0.00       | 53.4         | +2.6       |
| Charlotteburg.....                          | 29.8              | +2.9       | 30.0              | +4.4       | 44.2              | +8.4       | 53.2              | +6.4       | <sup>b</sup> 57.2 | -0.3       | 66.0              | +1.2       | 72.6              | +2.6       | 64.9              | -3.0       | <sup>a</sup> 65.7 | +3.8       | <sup>a</sup> 51.0 | -0.6       | <sup>b</sup> 41.4 | +1.3       | 28.8              | -1.0       | 50.4         | +2.2       |
| Dover.....                                  | 29.7              | +3.1       | 30.3              | +4.1       | <sup>a</sup> 45.8 | +10.6      | 54.4              | +7.0       | <sup>b</sup> 57.9 | -0.7       | 68.8              | +2.1       | <sup>a</sup> 75.0 | +3.6       | 66.6              | -2.5       | 66.8              | +4.6       | 51.8              | +0.5       | 41.4              | +1.3       | 29.4              | -0.5       | 51.5         | +2.8       |
| Layton.....                                 | 29.4              | +4.7       | 29.2              | +5.6       | 45.0              | +9.4       | 54.8              | +7.6       | 58.1              | +0.1       | 68.0              | +2.5       | 75.0              | +4.1       | 67.0              | -1.4       | 67.8              | +5.5       | 51.0              | -0.2       | <sup>a</sup> 40.6 | +1.3       | 28.4              | +1.0       | 51.2         | +3.4       |
| Newton.....                                 | 29.1              | +3.4       | <sup>a</sup> 29.9 | +3.4       | 45.8              | +10.3      | 54.8              | +6.8       | 59.5              | 0.0        | 69.6              | +1.6       | 75.2              | +2.7       | 67.8              | -2.6       | 68.3              | +4.8       | <sup>a</sup> 51.8 | -0.9       | <sup>b</sup> 41.0 | +0.5       | 29.0              | -1.1       | 51.8         | +2.4       |
| Phillipsburg.....                           | 30.4              | +2.3       | 31.6              | +3.7       | .....             | .....      | .....             | .....      | <sup>b</sup> 60.6 | -0.7       | .....             | .....      | .....             | .....      | .....             | .....      | <sup>b</sup> 69.5 | +5.3       | <sup>a</sup> 52.4 | -0.8       | <sup>b</sup> 41.7 | +0.6       | <sup>b</sup> 31.1 | +1.2       | .....        | .....      |
| Sussex.....                                 | 30.7              | +4.1       | 30.0              | +4.6       | 45.7              | +9.4       | <sup>b</sup> 55.3 | +6.7       | <sup>d</sup> 60.5 | +0.6       | <sup>a</sup> 69.1 | +2.3       | <sup>b</sup> 75.8 | +3.7       | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | .....        | .....      |
| <i>The Red Sandstone Plain.</i>             |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |              |            |
| Bergen Point.....                           | 33.3              | +2.6       | 34.0              | +4.6       | 48.3              | +8.8       | <sup>b</sup> 56.2 | +6.7       | 60.8              | +0.5       | <sup>b</sup> 70.1 | +1.7       | <sup>a</sup> 76.6 | +2.6       | 70.6              | -1.6       | 70.6              | +4.2       | <sup>a</sup> 54.2 | -2.0       | 44.4              | +0.7       | 33.0              | 0.0        | 54.3         | +2.4       |
| Boonton.....                                | 29.8              | +3.4       | 30.8              | +4.0       | 45.4              | +9.5       | 54.4              | +6.3       | 59.0              | +1.3       | 68.4              | +2.4       | 75.3              | +3.5       | 67.6              | -3.2       | 67.8              | +6.0       | 52.2              | -0.6       | <sup>b</sup> 41.2 | -0.2       | <sup>b</sup> 31.2 | +0.7       | 51.9         | +2.0       |
| Elizabeth.....                              | 33.9              | +3.7       | 34.3              | +3.8       | 50.0              | +11.2      | 57.2              | +6.4       | 61.0              | -1.0       | 71.0              | +0.5       | 77.6              | +2.3       | 70.8              | -2.6       | 71.0              | +4.3       | 54.5              | -0.9       | 44.6              | +1.1       | 33.0              | -0.3       | 54.9         | +2.4       |
| Flemington.....                             | 33.1              | +3.3       | 33.6              | +4.8       | <sup>a</sup> 49.9 | +9.8       | 57.8              | +7.4       | 61.2              | -0.1       | 72.0              | +2.8       | 77.7              | +3.1       | 70.4              | -2.1       | 70.7              | +4.4       | 54.8              | -1.2       | 44.6              | +1.7       | 32.8              | +0.8       | 54.9         | +2.9       |
| Highwood.....                               | 30.6              | +1.8       | 31.4              | +3.0       | 46.7              | +9.7       | 54.7              | +6.2       | 59.0              | -0.3       | 68.4              | +0.8       | 74.5              | +2.2       | 67.6              | -3.2       | 67.7              | +4.0       | 51.6              | -1.8       | <sup>a</sup> 42.4 | +0.4       | <sup>a</sup> 30.0 | -1.8       | 52.0         | +1.7       |
| Jersey City.....                            | 34.4              | +2.2       | 35.1              | +4.5       | 49.8              | +10.6      | 57.9              | +7.9       | 62.2              | +0.6       | 73.0              | +2.1       | 78.6              | +2.5       | 72.4              | -1.7       | 72.4              | +5.2       | 56.3              | 0.0        | 45.4              | +1.4       | 33.2              | -0.9       | 55.9         | +2.9       |
| Kearny.....                                 | 34.1              | .....      | .....             | .....      | 49.8              | .....      | 58.0              | .....      | 62.6              | .....      | 72.0              | .....      | 78.2              | .....      | 71.8              | .....      | 72.1              | .....      | 55.8              | .....      | 45.1              | .....      | 32.8              | .....      | .....        | .....      |
| Lambertville.....                           | 32.4              | +1.9       | <sup>a</sup> 32.2 | +1.8       | <sup>a</sup> 49.0 | +9.6       | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | 69.1              | -3.3       | 69.3              | +3.5       | 52.6              | -2.0       | 42.4              | -0.8       | 30.8              | -2.8       | .....        | .....      |
| Little Falls.....                           | <sup>a</sup> 31.9 | +4.5       | 33.2              | +3.6       | 48.6              | +10.6      | 58.0              | +8.1       | 62.9              | +3.2       | 72.4              | +4.7       | 78.4              | +4.6       | <sup>a</sup> 68.5 | -4.7       | 69.7              | +5.6       | 53.4              | -1.5       | 42.7              | +0.5       | 31.6              | +0.1       | 54.3         | +3.3       |
| Newark.....                                 | 31.8              | +2.2       | 33.0              | +3.9       | 48.4              | +9.4       | 56.2              | +6.2       | 62.0              | +0.9       | 71.5              | +2.2       | 77.8              | +3.2       | 71.6              | -1.2       | 71.6              | +5.2       | 54.7              | -1.1       | 44.1              | +0.5       | 32.0              | -1.3       | 54.6         | +2.5       |
| New Brunswick.....                          | 34.0              | +3.5       | 34.4              | +5.4       | 50.0              | +10.0      | 57.2              | +7.3       | 60.5              | -0.4       | 71.5              | +3.0       | 76.8              | +2.6       | 70.2              | -1.8       | 70.8              | +5.0       | 54.6              | -1.0       | 44.5              | +1.1       | 32.9              | +0.6       | 54.8         | +3.0       |
| Paterson.....                               | 33.4              | +3.8       | 34.6              | +4.4       | 49.5              | +10.7      | 58.3              | +7.8       | 62.0              | +0.5       | 72.4              | +2.6       | 78.0              | +3.6       | 70.9              | -2.6       | 71.2              | +5.0       | 55.8              | +0.6       | <sup>a</sup> 45.4 | +1.9       | 33.1              | 0.0        | 55.4         | +3.3       |
| Plainfield.....                             | 30.8              | +0.8       | 31.4              | +2.7       | 47.4              | +8.6       | 55.2              | +5.6       | 59.2              | -1.0       | 69.3              | +0.7       | 75.6              | +1.6       | 68.6              | -3.2       | 68.8              | +3.2       | 52.2              | -2.0       | 42.5              | 0.0        | 30.4              | -2.3       | 52.6         | +1.2       |
| Ridgefield.....                             | 30.8              | .....      | 31.7              | .....      | 46.6              | .....      | 54.8              | .....      | 59.4              | .....      | 68.6              | .....      | 75.4              | .....      | 68.6              | .....      | 68.5              | .....      | 52.0              | .....      | 42.0              | .....      | 30.0              | .....      | 52.4         | .....      |
| Somerville.....                             | .....             | .....      | 35.2              | +6.3       | 50.0              | +11.8      | 58.4              | +8.9       | 61.5              | +0.7       | 72.1              | +3.0       | 77.6              | +3.5       | 70.6              | -1.8       | <sup>b</sup> 71.8 | +5.8       | <sup>a</sup> 54.4 | +0.1       | <sup>a</sup> 45.0 | +2.6       | <sup>b</sup> 31.6 | -0.6       | .....        | .....      |
| South Orange.....                           | 31.8              | +2.9       | 32.6              | +3.6       | 47.8              | +10.7      | 55.2              | +6.7       | 61.5              | +1.5       | 70.1              | +1.6       | 76.4              | +3.2       | 69.6              | -1.3       | 68.9              | +4.8       | 52.5              | -0.9       | 43.0              | +1.2       | 31.3              | -0.8       | 53.4         | +2.8       |
| New York, N. Y.....                         | 33.6              | +3.4       | 34.8              | +4.1       | 48.3              | +10.8      | 55.0              | +6.9       | 60.4              | +1.1       | 70.3              | +1.8       | 76.2              | +2.7       | 70.9              | -1.3       | 71.0              | +4.5       | 56.2              | +0.6       | 45.0              | +1.0       | 33.8              | +2.9       | 54.6         | +2.9       |
| <i>The Southern Interior.</i>               |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |              |            |
| Bridgeton.....                              | 35.8              | +2.1       | 38.0              | +4.3       | 53.8              | +11.5      | 59.0              | +6.3       | 62.4              | -1.6       | 73.2              | +1.1       | 79.4              | +2.7       | 72.4              | -2.6       | 73.3              | +5.1       | 57.0              | -0.4       | 48.1              | +2.6       | 35.6              | -0.6       | 57.3         | +2.5       |
| Burlington.....                             | 34.8              | +2.5       | 36.2              | +4.9       | 52.8              | +12.4      | 59.1              | +7.3       | 62.0              | +0.1       | 73.0              | +3.3       | 78.0              | +3.2       | 72.1              | -2.1       | 72.6              | +5.8       | 56.1              | -2.4       | 45.3              | +0.7       | <sup>a</sup> 33.8 | +0.3       | 56.3         | +3.0       |
| Camp Dix.....                               | 34.7              | .....      | 35.3              | .....      | <sup>a</sup> 51.8 | .....      | 57.4              | .....      | 59.8              | .....      | 71.0              | .....      | <sup>a</sup> 77.0 | .....      | 69.4              | .....      | 70.2              | .....      | <sup>a</sup> 54.6 | .....      | 44.9              | .....      | 32.7              | .....      | 54.9         | .....      |
| Clayton.....                                | <sup>a</sup> 35.0 | +2.9       | 35.7              | +5.0       | 52.6              | +10.9      | 57.8              | +6.6       | 60.2              | -1.5       | <sup>a</sup> 72.0 | +2.5       | 78.0              | +3.0       | 70.2              | -2.9       | 70.9              | +4.1       | .....             | .....      | <sup>a</sup> 55.0 | -1.8       | .....             | .....      | .....        | .....      |
| Hightstown.....                             | <sup>a</sup> 33.4 | +3.5       | 33.4              | +4.0       | 50.6              | +10.2      | 57.0              | +6.5       | 59.9              | -1.4       | 70.0              | +1.0       | 76.2              | +1.8       | 69.2              | -3.1       | 69.2              | +2.4       | 53.5              | -1.7       | 43.8              | +0.5       | 32.0              | -0.6       | 54.1         | +2.6       |
| Imlaystown.....                             | 33.8              | +2.7       | 34.2              | +3.8       | 51.6              | +12.5      | 57.2              | +6.7       | 59.8              | -2.1       | <sup>a</sup> 70.1 | -0.2       | 76.8              | +2.1       | 69.4              | -3.4       | 70.0              | +3.7       | 54.1              | -1.0       | 44.3              | +1.5       | <sup>a</sup> 32.2 | -0.7       | 54.5         | +2.2       |
| Indian Mills.....                           | 34.6              | +2.7       | 35.4              | +3.6       | 51.6              | +11.1      | 57.2              | +6.9       | 59.8              | -2.3       | 69.6              | -0.2       | 76.4              | +1.7       | 68.8              | -3.8       | 70.4              | +4.3       | 53.8              | -1.7       | 45.0              | +2.1       | 32.9              | -0.9       | 54.6         | +1.9       |
| Lakewood.....                               | 34.1              | +2.8       | 34.2              | +4.5       | 49.6              | +10.0      | 56.2              | +6.5       | 59.1              | -1.1       | 69.2              | +2.4       | 77.4              | +4.6       | 68.9              | -2.2       | 69.2              | +4.6       | 52.4              | -2.7       | 44.8              | +2.0       | 32.6              | +2.5       | 54.0         | +2.5       |
| Moorestown.....                             | <sup>b</sup> 34.6 | +3.9       | <sup>a</sup> 37.2 | +5.9       | <sup>a</sup> 51.4 | +12.2      | <sup>a</sup> 58.2 | +7.8       | <sup>a</sup> 61.0 | -0.3       | <sup>a</sup> 73.2 | +3.2       | <sup>a</sup> 77.6 | +2.9       | <sup>b</sup> 70.8 | -1.8       | <sup>b</sup> 71.9 | +5.9       | <sup>a</sup> 56.6 | +1.9       | <sup>a</sup> 45.8 | +2.6       | <sup>b</sup> 32.2 | -0.3       | 56.3         | +3.7       |
| Trenton.....                                | 33.4              | +2.9       | 34.2              | +3.5       | 50.0              | +10.9      | 56.6              | +6.8       | 60.3              | -0.8       | 71.1              | +1.6       | 76.8              | +2.3       | 70.2              | -2.8       | 70.6              | +3.7       | 55.0              | -0.6       | 44.6              | +0.2       | 33.0              | -1.4       | 54.6         | +2.2       |
| Tuckerton.....                              | <sup>a</sup> 34.6 | +2.0       | 37.3              | +6.5       | 51.4              | +11.4      | 55.7              | +6.4       | 59.0              | -0.9       | 69.8              | +1.4       | 77.6              | +3.5       | 71.4              | -1.3       | 71.7              | +5.5       | 55.2              | -0.9       | 46.5              | +2.4       | 35.4              | +1.0       | 55.5         | +3.1       |
| Vineland.....                               | 36.9              | +4.7       | 38.2              | +5.7       | 55.0              | +14.5      | 58.9              | +7.9       | 62.2              | -0.1       | 73.2              | +2.0       | 79.4              | +3.0       | <sup>a</sup> 72.5 | -1.2       | 73.4              | +6.4       | <sup>a</sup> 58.0 | +2.0       | <sup>a</sup> 48.0 | +3.9       | 35.6              | +1.1       | 57.6         | +4.2       |
| Woodbine.....                               | <sup>a</sup> 33.7 | +0.7       | <sup>a</sup> 37.8 | +6.3       | <sup>a</sup> 53.4 | +12.3      | <sup>a</sup> 57.5 | +6.9       | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | .....             | .....      | .....        | .....      |
| Philadelphia, Pa.....                       | 36.0              | +4.2       | 37.6              | +4.8       | 52.5              | +12.5      | 58.5              | +7.7       | 62.4              | +0.2       | 73.4              | +2.2       | 78.6              | +2.8       | 72.7              | -1.1       | 72.8              | +5.4       | 57.7              | +1.4       | 46.8              | +1.9       | 35.6              | -0.1       | 57.0         | +3.5       |
| <i>The Sea Coast.</i>                       |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |                   |            |              |            |
| Asbury Park.....                            | 36.8              | +4.6       | 36.6              | +5.4       | <sup>a</sup> 48.6 | +9.6       | .....             | .....      | .....             | .....      | <sup>a</sup> 69.1 | +1.7       | 73.8              | +1.4       | 69.8              | -2.0       | 70.4              | +3.6       | <sup>a</sup> 55.0 | -0.8       | 46.7              | +1.9       | 34.4              | -0.6       | .....        | .....      |
| Atlantic City.....                          | 35.8              | +3.3       | 37.6              | +4.6       | 47.8              | +9.0       | 52.9              | +5.3       | 57.6              | +0.1       | 67.7              | +0.9       | 74.2              | +1.7       | 70.9              | -1.7       | 71.6              | +4.0       | 56.8              | -0.6       | 48.2              | +2.7       | 35.9              | -0.5       | 54.8         | +2.4       |
| Cape May City.....                          | 36.4              | +2.3       | 38.4              | +4.3       | 48.3              | +7.5       | 53.8              | +5.4       | 58.8              | +0.2       | 69.2              | +1.5       | 76.2              | +2.9       | 71.8              | -1.6       | 72.9              | +3.9       | 58.3              | -1.3       | 49.2              | +1.8       | 36.8              | -1.2       | 55.8         | +2.1       |
| Long Branch.....                            | 33.4              | +1.8       | 34.8              | +4.4       | 46.5              | +8.0       | 52.2              | +4.1       | 57.4              | -0.8       | 67.4              | +1.2       | 74.0              | +1.9       | 69.8              | -1.2       | 69.0              | +3.1       | 52.6              | -3.7       | 42.8              | -1.4       | 30.7              | -3.4       | 52.6         | +1.2       |
| Sandy Hook.....                             | 33.7              | +3.8       | 34.1              | +3.5       | 46.8              | +9.8       | 54.0              | +7.0       | 59.0              | +0.5       | 69.0              | +1.2       | 75.9              | +2.2       | 71.3              | -1.5       | 71.4              | +4.3       | 56.0              | -1.0       | 45.6              | +1.0       | 33.6              | -0.8       | 54.2         | +2.5       |

Letters of alphabet denote number of days missing.



MAR 5 1922

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist,

VOL. XXVII. TRENTON, N. J., JANUARY, 1922. No. 1.

### GENERAL SUMMARY.

The one outstanding feature of the weather in New Jersey during January, 1922, was the general moderately low temperature, without notably severe cold days. The month averaged one of the nine coldest Januarys since 1885, and continued the remarkable alternation of warm and cold months which began in 1917. From the 12th to the close of the month, subnormal warmth prevailed rather persistently, except for a brief warm period from the 18th to the 20th. Rain, snow and cloudiness were deficient, and sunshine was in slight excess.

A severe storm passed over the State on the 11th, the center moving northeastward, just beyond the coast line. The pressure fell to 28.74 inches, and there was considerable wind damage in all portions of the State, and along the shore destruction was caused by the waves. Another storm on the 28th-29th covered the State with snow, the greatest depths being in central and southwestern counties, many sections being blockaded temporarily; drifts in some cases were 12 or more feet deep. Rail traffic was somewhat, but not seriously, interrupted. Highways would have been effectively blocked, except for the snow removal operations along principal routes.

Fairly satisfactory ice crops were gathered for commercial purposes from central counties northward.

Storm warnings were displayed along the coast on the 2d, 4th, 10th, 11th, 14th, 15th, 17th, 22d, 27th, 28th, and 29th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 27.6°, which was 2.3° below the normal. The highest temperature was 57° at Asbury Park on the 5th, and the lowest, 13° below zero at Culvers Lake on the 26th. The greatest daily range of temperature was 45° at Layton on the 10th. The highest monthly mean was 32.4° at Cape May City, and the lowest, 22.6° at Charlotteburg.

The temperature departure from the normal for the year 1922 to date, by sections, is: The Highlands, -2.5°; Red Sandstone Plain, -2.8°; Southern Interior, -2.1°; Sea Coast, -1.3°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 2.62 inches, which was 0.99 inch below the normal. The greatest monthly precipitation was 4.13 inches at Tuckerton, and the least, 1.08 inches at Monton. The average total snowfall was 11.1 inches, which was 2.2 inches above the normal; this average ranged from 12.0 inches in the Highlands to 7.5 inches on the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 2.11 inches at Hammonton on the 11th. The average number of days on which .01 inch or more of precipitation fell was 8, which was 3 less than the normal.

The precipitation accumulated departure from the normal for the year 1922 to date, by sections, is: The Highlands, -1.67 inches; Red Sandstone Plain, -1.54 inches; Southern Interior, -0.18 inch; Sea Coast, -0.51 inch.

### WIND.

The prevailing wind direction was from the northwest, which was normal. The wind movement was 16 miles per hour, which was 2 miles above the normal. The highest velocity, sustained for 5 consecutive minutes, was 78 miles per hour from the northeast at Long Branch on the 11th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was 5 more than the normal; partly cloudy, 6, or 3 less than the normal; cloudy, 10, or 2 less than the normal. The per cent of possible sunshine was 52, which was 2 per cent above the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.18 inches, which was 0.07 inch above the normal. The highest reading was 30.72 inches at Cape May City on the 25th, and the lowest, 28.74 inches at Sandy Hook and Trenton on the 11th.

The mean stage of the Delaware River at Phillipsburg was 1.7 feet, and the highest, 2.5 feet on the 5th, 8th, and 9th. At Trenton the mean daily stage was 1.5 feet, which was 2.1 feet below the normal. The highest stage was 1.6 feet on the 21st, and the lowest, 1.0 foot on the 30th and 31st.

Dense fog occurred on the 4th, 5th, 9th, 10th, 18th, 19th, and 20th. Haze occurred on the 17th. Sleet was observed quite generally throughout the northern half of the State on the 11th and 21st, and at a few stations on the 3d, 4th, 5th, 8th, 18th, and 28th. Solar halos were observed on the 6th, 7th, 8th, 10th, 17th, 23d, 27th, and 31st, and lunar halos on the 3d, 6th, 10th, 11th, and 15th. The aurora was observed on the 3d and 10th.

### COMPARATIVE DATA FOR JANUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.8         | 67       | 0       | 4.08           | 5.41      | 3.33   | .....        | .....          | .....   | .....                  |
| 1886..... | 27.3         | 60       | -10     | 4.47           | 5.59      | 3.08   | .....        | .....          | .....   | .....                  |
| 1887..... | 28.4         | 67       | -6      | 3.86           | 6.65      | 2.00   | .....        | .....          | .....   | .....                  |
| 1888..... | 25.4         | 59       | -12     | 4.77           | 6.74      | 2.80   | .....        | .....          | 12      | 10                     |
| 1889..... | 36.2         | 60       | 8       | 5.68           | 8.78      | 3.84   | .....        | .....          | 12      | 9                      |
| 1890..... | 41.3         | 78       | 12      | 2.29           | 3.22      | 1.05   | .....        | .....          | 9       | 9                      |
| 1891..... | 34.2         | 59       | 10      | 6.57           | 10.55     | 4.41   | .....        | .....          | 11      | 10                     |
| 1892..... | 29.9         | 67       | -6      | 5.13           | 7.05      | 2.50   | 10           | 11             | 10      | 10                     |
| 1893..... | 21.6         | 54       | -21     | 3.04           | 4.56      | 1.87   | 10           | 10             | 12      | 10                     |
| 1894..... | 34.2         | 61       | -4      | 2.34           | 3.80      | 1.18   | 10           | 10             | 11      | 9                      |
| 1895..... | 28.1         | 64       | -4      | 4.66           | 5.80      | 2.48   | 10           | 10             | 13      | 11                     |
| 1896..... | 28.6         | 61       | -7      | 1.66           | 2.61      | 0.68   | 12           | 10             | 11      | 11                     |
| 1897..... | 29.0         | 64       | -6      | 2.80           | 4.21      | 1.70   | 11           | 10             | 9       | 5                      |
| 1898..... | 32.6         | 64       | -10     | 4.20           | 5.90      | 2.79   | 9            | 8              | 12      | 9                      |
| 1899..... | 30.1         | 60       | -21     | 4.01           | 5.73      | 2.40   | 13           | 11             | 11      | 11                     |
| 1900..... | 32.4         | 64       | -5      | 3.85           | 5.50      | 2.37   | 11           | 8              | 10      | 11                     |
| 1901..... | 30.4         | 63       | -6      | 2.52           | 4.00      | 1.35   | 11           | 11             | 9       | 10                     |
| 1902..... | 28.4         | 58       | -5      | 3.28           | 4.35      | 2.52   | 12           | 9              | 9       | 9                      |
| 1903..... | 30.4         | 57       | -5      | 3.90           | 5.04      | 2.52   | 10           | 9              | 10      | 10                     |
| 1904..... | 23.3         | 58       | -34     | 3.09           | 4.67      | 1.34   | 13           | 10             | 11      | 10                     |
| 1905..... | 27.0         | 60       | -16     | 4.18           | 7.13      | 2.68   | 12           | 9              | 11      | 10                     |
| 1906..... | 36.5         | 74       | -5      | 2.85           | 3.86      | 2.08   | 12           | 9              | 10      | 9                      |
| 1907..... | 31.8         | 71       | -19     | 3.50           | 5.80      | 1.93   | 8            | 9              | 11      | 11                     |
| 1908..... | 31.8         | 60       | -6      | 3.74           | 5.22      | 2.29   | 12           | 11             | 14      | 14                     |
| 1909..... | 33.2         | 69       | -12     | 3.18           | 4.13      | 2.18   | 12           | 11             | 8       | 9                      |
| 1910..... | 29.7         | 54       | -15     | 5.04           | 6.65      | 3.66   | 8            | 9              | 14      | 12                     |
| 1911..... | 33.5         | 63       | 0       | 3.44           | 5.34      | 1.97   | 10           | 8              | 15      | 15                     |
| 1912..... | 22.3         | 58       | -32     | 2.82           | 4.62      | 1.73   | 10           | 7              | 14      | 14                     |
| 1913..... | 35.9         | 68       | 10      | 3.58           | 4.71      | 2.63   | 8            | 12             | 11      | 13                     |
| 1914..... | 31.9         | 73       | -18     | 3.85           | 6.15      | 1.96   | 11           | 7              | 13      | 14                     |
| 1915..... | 33.5         | 61       | -5      | 6.55           | 8.92      | 4.40   | 9            | 8              | 14      | 9                      |
| 1916..... | 35.1         | 74       | -8      | 1.60           | 2.96      | 0.92   | 11           | 6              | 14      | 12                     |
| 1917..... | 31.4         | 58       | -6      | 3.26           | 4.52      | 2.35   | 10           | 8              | 12      | 11                     |
| 1918..... | 20.3         | 56       | -24     | 4.14           | 6.14      | 2.78   | 10           | 8              | 13      | 13                     |
| 1919..... | 34.1         | 62       | -9      | 3.51           | 4.44      | 2.24   | 14           | 7              | 11      | 11                     |
| 1920..... | 23.6         | 53       | -14     | 2.60           | 3.53      | 1.61   | 11           | 7              | 10      | 8                      |
| 1921..... | 33.0         | 63       | -11     | 2.63           | 3.49      | 1.78   | 13           | 8              | 13      | 11                     |
| 1922..... | 27.6         | 57       | -13     | 2.62           | 4.13      | 1.08   | 15           | 6              | 10      | 9                      |



## Climatological Data for January, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers.     |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|----------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. | Pt. cloudy. |                               |                | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                |                           |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 24.5                          | -2.8                       | 46       | 10    | -2      | 16    | 34                        | 1.83   | -1.71                      | 0.70                  | 13.0                       | 7                              | 19     | 4           | 8                             | .....          | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 22.6                          | -4.3                       | 50       | 6     | -11     | 17    | 44                        | 1.45   | -2.07                      | 0.50                  | 10.0                       | 7                              | 12     | 11          | 8                             | nw.            | Newark Water Dept.        |
| Culvers Lake††.....                         | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | -13     | 26    | .....                     | 1.34   | -1.84                      | 0.45                  | 12.9                       | 7                              | 18     | 5           | 8                             | se.            | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 38                       | 24.4                          | -2.2                       | 49       | 6     | -3      | 17    | 37                        | 2.21   | -2.18                      | 0.90                  | 15.0                       | 8                              | 9      | 16          | 6                             | .....          | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 23.0                          | -1.7                       | 49       | 5     | -9      | 17    | 45                        | 2.36   | -0.53                      | 0.65                  | 9.5                        | 8                              | 16     | 5           | 10                            | s.             | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 23.2                          | -2.5                       | 45       | 5     | -4      | 26    | 25                        | 2.01   | -1.60                      | 0.85                  | 13.0                       | 7                              | 17     | 5           | 9                             | sw.            | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 27.0                          | -1.1                       | 46       | 11    | 2       | 17    | 34                        | 2.22   | -1.38                      | 0.91                  | 11.0                       | 9                              | 18     | 7           | 6                             | .....          | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 23.7                          | -2.9                       | 46       | 6     | -7      | 17    | 41                        | 1.46   | -2.02                      | 0.65                  | 12.0                       | 6                              | 17     | 5           | 9                             | sw.            | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 24.1                          | -2.5                       | 50       | 6     | -13     | 26    | 45                        | 1.86   | -1.67                      | 0.91                  | 12.0                       | 7                              | 16     | 7           | 8                             | sw.            |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 25                       | 28.1*                         | -2.6                       | 48       | 5     | 5       | 26    | 22                        | 1.95   | -1.94                      | 1.15                  | 10.0                       | 7                              | 8      | 17          | 6                             | nw.            | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 32                       | 23.5                          | -3.8                       | 49       | 5     | -5      | 17    | 39                        | 1.08   | -2.75                      | 0.61                  | .....                      | 5                              | 22     | 1           | 8                             | nw.            | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.66   | -1.03                      | 0.82                  | .....                      | 11                             | 12     | 12          | 7                             | .....          | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 28.3                          | -1.9                       | 49       | 5     | 5       | 25†   | 30                        | 2.63   | -0.39                      | 1.28                  | 10.5                       | 9                              | 14     | 9           | 8                             | ne.            | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 27.6                          | -2.2                       | 48       | 5†    | 3       | 17†   | 38                        | 1.41   | -2.28                      | 0.29                  | 6.0                        | 9                              | 17     | 6           | 8                             | w.             | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 26.2                          | -2.6                       | 46       | 6     | 1       | 25    | 31                        | 2.64   | -1.25                      | 1.32                  | .....                      | 6                              | 13     | 11          | 7                             | nw.            | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 28.8                          | -3.4                       | 50       | 5     | 6       | 26    | 24                        | 2.91   | -0.59                      | 1.65                  | 10.8                       | 8                              | 10     | 9           | 12                            | nw.            | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 3                        | 28.0                          | .....                      | 52       | 5     | 4       | 26    | 22                        | 2.63   | .....                      | 1.40                  | .....                      | 9                              | 16     | 8           | 7                             | ne.            | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 300              | 35                       | 26.3                          | -4.2                       | 49       | 5     | 3       | 26    | 23                        | 2.02   | -1.63                      | 0.78                  | 12.4                       | 9                              | 16     | 7           | 8                             | nw.            | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 319                      | 24.8*                         | -2.6                       | 47       | 9     | 0       | 17    | 35                        | 2.27   | -1.43                      | 1.39                  | 7.0                        | 9                              | 15     | 9           | 7                             | nw.            | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 80                       | 27.4                          | -2.4                       | 49       | 5     | 4       | 26    | 20                        | 1.77   | -1.99                      | 0.70                  | 13.3                       | 10                             | 12     | 9           | 10                            | nw.            | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 28.1                          | -2.1                       | 51       | 5     | 2       | 26    | 32                        | 2.06   | -1.72                      | 0.81                  | 6.6                        | 9                              | 18     | 6           | 7                             | n.             | N. J. Experiment Station. |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 28.4                          | -1.2                       | 49       | 5     | 5       | 26    | 28                        | 2.86   | -0.99                      | 1.20                  | 12.5                       | 10                             | 8      | 3           | 20                            | nw.            | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 110              | 34                       | 25.6                          | -4.4                       | 50       | 5     | 2       | 26    | 33                        | 1.95   | -2.07                      | 0.93                  | 9.8                        | 7                              | 15     | 7           | 9                             | nw.            | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 70               | 7                        | 26.4                          | .....                      | 48       | 5     | 3       | 25†   | 26                        | 2.81   | .....                      | 1.23                  | 12.2                       | 9                              | 14     | 6           | 11                            | nw.            | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 39                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | 2.09                  | .....                      | 15                             | 9      | 7           | .....                         | Kenneth Bauer. |                           |
| South Orange.....                           | Essex.....      | 200              | 52                       | 26.4                          | -2.5                       | 49       | 5     | 3       | 26    | 23                        | 2.52   | -1.51                      | 1.25                  | 13.0                       | 7                              | 20     | 3           | 8                             | w.             | Wm. H. Meeder.            |
| New York, N. Y.....                         |                 | 365              | 52                       | 29.0                          | -1.2                       | 50       | 5     | 6       | 26    | 26                        | 2.46   | -1.33                      | 1.02                  | 9.9                        | 8                              | 10     | 10          | 11                            | nw.            | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 26.9                          | -2.8                       | 52       | 5     | -5      | 17    | 39                        | 2.26   | -1.54                      | 2.09                  | 11.3                       | 8                              | 14     | 8           | 9                             | nw.            |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                |                           |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 31.3                          | -2.4                       | 54       | 5     | 7       | 26    | 30                        | 3.23   | -0.29                      | 1.51                  | 8.0                        | 8                              | 18     | 2           | 11                            | ne.            | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 29.2                          | -3.1                       | 53       | 5     | 5       | 26    | 30                        | 2.76   | -0.64                      | 1.10                  | 12.5                       | 10                             | 21     | 3           | 7                             | nw.            | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 28.8                          | .....                      | 54       | 5     | 3       | 26    | 31                        | 2.26   | .....                      | 1.01                  | .....                      | 11                             | 6      | 5           | 20                            | nw.            | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 29                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....          | Marvin E. Porch.          |
| Hammonton.....                              | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.80   | +0.61                      | 2.11                  | 9.0                        | 8                              | 19     | 6           | 6                             | n.             | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 27.8                          | -2.1                       | 53       | 5     | 0       | 31    | 43                        | 2.84   | -0.43                      | 1.20                  | 13.5                       | 8                              | 19     | 4           | 8                             | nw.            | E. H. Savage, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 28.5                          | -2.6                       | 54       | 5     | 0       | 31    | 41                        | 3.03   | -0.51                      | 1.20                  | .....                      | 9                              | 16     | 5           | 10                            | sw.            | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 33                       | 28.8                          | -3.1                       | 56       | 5     | 1       | 26    | 42                        | 3.31   | -0.51                      | 1.37                  | 12.0                       | 9                              | 12     | 7           | 12                            | w.             | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 29.0                          | -2.3                       | 55       | 5     | 6       | 25†   | 33                        | 3.84   | +0.16                      | 2.00                  | .....                      | 7                              | 17     | 1           | 13                            | w.             | R. W. Holman.             |
| Moorestown††.....                           | Burlington..... | 75               | 59                       | 29.8                          | -0.9                       | 53       | 5     | 5       | 26    | 38                        | 3.92   | +0.46                      | 1.85                  | .....                      | 10                             | 19     | 3           | 9                             | w.             | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.58   | +0.05                      | 1.63                  | 12.8                       | 10                             | .....  | .....       | .....                         | .....          | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.94   | -0.22                      | 1.33                  | .....                      | 9                              | 15     | 5           | 11                            | .....          | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 28.4                          | -2.1                       | 52       | 5     | 5       | 26    | 23                        | 2.41   | -0.76                      | 1.07                  | 13.5                       | 7                              | 7      | 9           | 15                            | w.             | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 30.8*                         | -1.8                       | 50       | 10    | 6       | 25    | 28                        | 4.13   | +0.50                      | 1.92                  | 12.0                       | 9                              | 15     | 7           | 9                             | nw.            | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 31.6                          | -0.6                       | 55       | 5     | 7       | 26    | 31                        | 3.88   | -0.14                      | 1.80                  | 12.5                       | 9                              | 14     | 6           | 11                            | nw.            | H. C. Himes.              |
| Woodbine.....                               | Cape May.....   | 43               | 28                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....          | W. I. Zechman.            |
| Philadelphia, Pa.....                       |                 | 117              | 52                       | 31.2                          | -0.6                       | 53       | 5     | 9       | 26    | 22                        | 3.16   | -0.25                      | 1.28                  | 15.6                       | 8                              | 9      | 9           | 13                            | n.             | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 29.5                          | -2.1                       | 56       | 5     | 0       | 31    | 43                        | 3.28   | -0.18                      | 2.11                  | 11.7                       | 9                              | 15     | 5           | 11                            | w.             |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 31.2                          | -1.0                       | 57       | 5     | 8       | 3     | 27                        | 2.55   | -1.02                      | 1.18                  | .....                      | 8                              | 11     | 12          | 8                             | nw.            | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 32.2                          | -0.3                       | 53       | 5     | 11      | 25    | 22                        | 4.04   | +0.64                      | 1.73                  | 9.2                        | 10                             | 11     | 4           | 16                            | nw.            | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 38                       | 32.4                          | -1.7                       | 53       | 5     | 11      | 26    | 22                        | 3.95   | +0.58                      | 1.68                  | 9.1                        | 12                             | 13     | 4           | 14                            | n.             | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 28.6                          | -3.0                       | 55       | 5     | 6       | 3     | 23                        | 3.54   | -0.64                      | 1.98                  | 7.9                        | 9                              | 12     | 7           | 12                            | nw.            | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 29.3                          | -0.6                       | 50       | 5     | 10      | 2     | 20                        | 1.74   | -2.11                      | 0.84                  | 3.7                        | 8                              | 12     | 8           | 11                            | nw.            | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 30.7                          | -1.3                       | 57       | 5     | 6       | 3     | 27                        | 3.16   | -0.51                      | 1.98                  | 7.5                        | 9                              | 12     | 7           | 12                            | nw.            |                           |
| For the State.....                          |                 |                  |                          | 27.6                          | -2.3                       | 57       | 5     | -13     | 26    | 45                        | 2.62   | -0.99                      | 2.11                  | 11.1                       | 8                              | 15     | 6           | 10                            | nw.            |                           |

† On other dates also.

‡ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, \*, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion.



Daily Precipitation for January, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    | Total. |      |      |
|--------------------------------------------|-----------------|---------------|---|-----|-----|-----|-----|---|-----|-----|-----|------|------|------|----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|----|------|------|----|--------|------|------|
|                                            |                 | 1             | 2 | 3   | 4   | 5   | 6   | 7 | 8   | 9   | 10  | 11   | 12   | 13   | 14 | 15 | 16 | 17 | 18  | 19  | 20  | 21  | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29   | 30   | 31 |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    |        |      |      |
| Belvidere.....                             | Delaware        |               |   |     | .25 | .14 |     |   |     |     |     | *    | .70  |      |    |    |    |    |     |     |     | .34 |     |    |    |    |    |    |    |      |      |    |        | 1.83 |      |
| Charlotteburg.....                         | Passaic         |               |   | T.  | *   | .24 |     |   |     |     |     | .50  |      |      |    |    |    |    |     |     |     | .21 |     |    |    |    |    |    | *  | .40  |      |    |        | 1.48 |      |
| Culvers Lake.....                          | Delaware        |               |   | T.  | .17 | .15 |     |   |     |     |     | .45  | .20  |      |    |    |    |    |     | .03 |     | .21 |     |    |    |    |    |    | *  | .50  |      |    |        | 1.34 |      |
| Dover.....                                 | Passaic         | T.            |   | T.  | *   | .35 |     |   |     |     |     | .60  |      |      |    |    |    |    |     | .01 |     | .31 |     |    |    |    |    |    | T. | .05  |      |    |        | 2.21 |      |
| Layton.....                                | Delaware        |               |   |     | .05 | .15 | .21 |   |     |     |     | .65  | .60  |      |    |    |    |    | *   |     | .08 | .28 |     |    |    |    |    |    | *  | .90  |      |    |        |      |      |
| Newton.....                                | Delaware        |               |   | T.  | .19 | .10 |     |   |     |     |     | .85  | .21  |      |    |    |    |    |     | T.  | T.  | .46 |     |    |    |    |    |    |    | .06  | .18  |    |        | 2.36 |      |
| Phillipsburg.....                          | do.             | T.            |   | T.  | .28 | .22 |     |   |     |     |     | .91  | .01  |      |    |    |    |    |     | .06 |     | .30 |     |    |    |    |    |    |    | T.   | .30  |    |        | 2.01 |      |
| Susser.....                                | Hudson          |               |   |     | .02 | .07 | .28 |   |     |     |     | .65  | .04  |      |    |    |    |    |     | T.  |     | .25 | .01 |    |    |    |    |    |    | .10  | .45  |    |        | 2.22 |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    |        |      |      |
| Bergen Point.....                          | Coast           | T.            |   |     | .15 |     |     |   |     |     |     | 1.15 | T.   |      |    |    |    |    |     | .03 | .01 | .15 |     |    |    |    |    |    |    |      |      |    |        |      |      |
| Boonton   .....                            | Passaic         |               |   |     | .19 |     |     |   |     |     |     | .04  | .61  |      |    |    |    |    |     | T.  |     | .09 |     |    |    |    |    |    |    | .33  | .13  |    |        | 1.95 |      |
| Chatham   .....                            | do.             | T.            |   | T.  | .23 | .03 |     |   |     |     |     | .06  | *    | .81  |    |    |    |    |     | .03 | .05 | .12 | .29 |    |    |    |    |    |    | .15  |      |    |        | 1.08 |      |
| Elizabeth.....                             | Coast           |               |   | T.  | *   | .18 |     |   |     |     |     | .03  | *    | 1.28 |    |    |    |    |     | .04 | .25 |     |     |    |    |    |    |    | *  | .85  |      |    |        | 2.66 |      |
| Flemington.....                            | Raritan         | T.            |   | T.  | .28 | .06 |     |   |     |     |     | .25  | .10  |      |    |    |    |    |     | .21 | .29 |     |     |    |    |    |    |    | *  | .15  |      |    |        | 2.63 |      |
| Highwood.....                              | Hackensack      |               |   | T.  | .16 |     |     |   |     |     |     | T.   | 1.32 |      |    |    |    |    |     | .21 | .31 |     |     |    |    |    |    |    |    | .05  | .15  |    |        | 1.41 |      |
| Jersey City.....                           | Coast           |               |   | T.  | .15 | .01 |     |   |     |     | .02 | 1.65 |      |      |    |    |    |    |     | .02 |     | .28 |     |    |    |    |    |    |    | .15  | .52  |    |        | 2.64 |      |
| Kearny.....                                | Coast           |               |   | T.  | *   | .23 |     |   |     |     | T.  | *    | 1.40 |      |    |    |    |    |     | .02 |     | .28 |     |    |    |    |    |    |    | .38  | .40  |    |        | 2.91 |      |
| Lambertville.....                          | Delaware        | T.            |   | T.  | .20 | .10 |     |   |     |     | .03 | .69  | .02  |      |    |    |    |    |     | .02 |     | .15 |     |    |    |    |    |    | *  | .83  |      |    |        | 2.63 |      |
| Little Falls.                              | Passaic         |               |   |     | .01 | .20 |     |   |     |     | .01 | .19  | 1.20 |      |    |    |    |    |     | .03 | .17 |     |     |    |    |    |    |    |    | .30  | T.   |    |        | 2.02 |      |
| Newark**.....                              | Coast           |               |   | .01 | .04 | .02 |     |   |     | .03 |     | .59  |      |      |    |    |    |    |     | .03 | .25 | .08 |     |    |    |    |    |    |    | .45  | .33  |    |        | 2.27 |      |
| New Brunswick.....                         | Raritan         |               |   | T.  | .16 | .03 |     |   |     |     | .03 | .81  | .15  |      |    |    |    |    | .02 | .03 | T.  | .13 |     |    |    |    |    |    |    | .70  | .20  |    |        | 1.77 |      |
| Paterson.....                              | Passaic         |               |   | .02 | .11 | .02 |     |   |     |     |     | T.   | 1.16 | .05  |    |    |    |    |     | .02 |     | .23 |     |    |    |    |    |    |    | .18  | .45  |    |        | 2.06 |      |
| Plainfield.....                            | Raritan         | T.            |   |     | .18 | .05 |     |   |     | .01 |     | .93  | T.   |      |    |    |    |    |     | .03 | .02 | .25 |     |    |    |    |    |    | *  | 1.20 |      |    |        | 2.86 |      |
| Ridgefield**.....                          | Hackensack      |               |   | T.  | *   | .13 |     |   |     | T.  | .02 | 1.23 | .01  |      |    |    |    |    |     | T.  |     | .28 |     |    |    |    |    |    |    | *    | .50  |    |        | 1.95 |      |
| Somerville.....                            | Raritan         |               |   |     | \$  |     |     |   |     |     | .10 | 1.25 | .12  |      |    |    |    |    |     | .02 |     | .26 |     |    |    |    |    |    |    | .59  | .55  |    |        | 2.81 |      |
| South Orange.....                          | Rahway          |               |   | T.  | .22 | .02 |     |   |     | T.  | T.  | 1.25 |      |      |    |    |    |    |     | T.  | .14 | .22 |     |    |    |    |    |    |    | 2.09 | .15  |    |        | \$   |      |
| New York, N. Y***                          | Coast           |               |   | T.  | .14 | T.  |     |   | .02 |     |     | 1.02 | T.   |      | T. |    |    |    |     | .03 | .01 | .40 | .26 |    |    |    |    |    | *  | .60  |      |    |        | 2.52 |      |
| <i>The Southern Interior.</i>              |                 |               |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    |        |      |      |
| Bridgeton.....                             | Coast           | T.            |   |     | .19 |     |     |   |     | .28 |     | 1.51 |      |      |    |    |    |    |     | .10 | .05 | .30 |     |    |    |    |    |    |    |      |      |    |        |      |      |
| Burlington.....                            | Delaware        |               |   | .02 | .05 | .20 |     |   |     | .02 |     | 1.10 | .02  |      |    |    |    |    |     | .05 | .35 |     |     |    |    |    |    |    | *  | .80  |      |    |        | 3.23 |      |
| Camp Dix   .....                           | Delaware        |               |   | T.  | .15 | .04 |     |   |     | .04 |     | .27  | .40  |      |    |    |    |    |     | .04 | .02 | .25 | .03 |    |    |    |    |    |    | .40  | .55  |    |        | 2.76 |      |
| Clayton.....                               | Maurice         |               |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    |        |      | 2.26 |
| Hammonton.....                             | Mullica         |               |   | .13 |     |     |     |   | .02 | .12 |     | 2.11 |      |      |    |    |    |    |     | .09 | .24 |     |     |    |    |    |    |    |    | .36  | .73  |    |        | 3.80 |      |
| Hightstown.....                            | Raritan         |               |   | T.  | .25 | .05 |     |   | .09 |     | .70 |      |      |      |    |    |    |    |     | .25 | .30 |     |     |    |    |    |    |    |    | .40  | .80  |    |        | 2.84 |      |
| Maytown.....                               | Delaware        |               |   | T.  | .15 | .08 |     |   |     | .05 |     | 1.20 |      |      |    |    |    |    |     | .05 | .39 | .01 |     |    |    |    |    |    |    | .20  | .90  |    |        | 3.03 |      |
| Indian Mills.....                          | Mullica         |               |   | T.  | .16 | .08 |     |   |     | .14 |     | 1.37 |      |      |    |    |    |    |     | .10 | T.  | .33 |     |    |    |    |    |    |    | .70  | .58  |    |        | 3.31 |      |
| Lakewood.....                              | Metedeconk      |               |   | T.  | .10 | .06 |     |   |     | T.  |     | 2.00 |      |      |    |    |    |    |     | .05 | .21 |     |     |    |    |    |    |    |    | .50  | .75  |    |        | 3.84 |      |
| Loosewater.....                            | Delaware        |               |   | .03 | .17 | .05 |     |   |     | .07 |     | 1.85 | .02  |      |    |    |    |    |     | .10 | T.  | .32 |     |    |    |    |    |    |    | .40  | 1.00 |    |        | 3.92 |      |
| Northfield.....                            | Coast           |               |   | T.  | .02 | .03 |     |   | .07 | .16 |     | 1.63 |      |      |    |    |    |    |     | .01 | .32 |     |     |    |    |    |    |    |    | .48  | .49  |    |        | 3.58 |      |
| Pleasantville.....                         | Coast           | T.            |   | T.  | T.  | .05 |     |   | .08 | .12 |     | 1.33 |      |      |    |    |    |    |     | .14 | .06 | .50 |     |    |    |    |    |    |    | .37  | .35  |    |        | 2.94 |      |
| Princeton***.....                          | Delaware        |               |   | T.  | .17 | .02 |     |   | .09 |     |     | .82  |      |      |    |    |    |    |     | T.  | T.  | .24 |     |    |    |    |    |    |    | .95  | .12  |    |        | 2.41 |      |
| Ruckertown.....                            | Coast           |               |   |     | .10 | .04 |     |   |     | .23 |     | 1.92 |      |      |    |    |    |    |     | .20 | .05 | .39 |     |    |    |    |    |    | *  | 1.20 |      |    |        | 4.13 |      |
| Shelton.....                               | Maurice         |               |   | T.  | T.  | .18 |     |   | *   | .25 |     | 1.80 |      |      |    |    |    |    |     | *   | .14 | .31 |     |    |    |    |    |    | *  | 1.20 |      |    |        | 3.88 |      |
| Woodbine.....                              | Coast           |               |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    |        |      |      |
| Philadelphia, Pa.....                      | Delaware        | T.            |   | T.  | .18 | .02 |     |   | .07 |     |     | 1.28 |      |      |    |    |    |    |     | T.  | .01 | .35 |     |    |    |    |    |    |    | 1.08 | .17  |    |        | 3.16 |      |
| <i>The Sea Coast.</i>                      |                 |               |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    |        |      |      |
| Asbury Park.....                           | Coast           | T.            |   | T.  | .11 | .04 |     |   |     | T.  |     | 1.18 |      |      |    |    |    |    |     | .12 | .02 | .38 |     |    |    |    |    |    | *  | .70  |      |    |        | 2.55 |      |
| Atlantic City**.....                       | do.             |               |   | T.  | .03 | .03 |     |   | .25 |     |     | 1.73 |      |      |    |    |    |    |     | .12 | .07 | .43 |     |    |    |    |    |    |    | .92  | .41  |    |        | 4.04 |      |
| Bay May City.....                          | do.             |               |   | T.  | .04 | .12 |     |   | .06 | .24 |     | 1.68 |      |      |    |    |    |    |     | .05 | .28 | .21 | .06 |    |    |    |    |    |    | .70  | .07  |    |        | 3.95 |      |
| Long Branch**.....                         | do.             |               |   | T.  | .16 | .09 |     |   | .02 |     |     | 1.98 |      |      |    |    |    |    | .01 | T.  | .21 | .06 | .48 |    |    |    |    |    |    | .40  | .17  |    |        | 3.54 |      |
| Manly Hook***.....                         | do.             |               |   | T.  | .14 | .02 |     |   | .03 |     |     | .84  |      |      |    |    |    |    |     | .05 | T.  | .33 |     |    |    |    |    |    |    | .21  | .12  |    |        | 1.74 |      |
| Except as otherwise indicated.             |                 |               |   |     |     |     |     |   |     |     |     |      |      |      |    |    |    |    |     |     |     |     |     |    |    |    |    |    |    |      |      |    |        |      |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.           | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                     |
|---------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                     | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity.<br>per cent. at 8 a. m. | Relative humidity.<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                     |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....  | 30.19         | 30.66    | 25    | 28.81   | 11    | 19               | 74              | e.         | 11        | 79                                         | 72                                         | 47                                  |
| Bay May City.....   | 30.22         | 30.72    | 25    | 28.85   | 11    | 11               | 48              | nw.        | 2         | 76                                         | 76                                         | 47                                  |
| Long Branch.....    | 30.17         | 30.62    | 25    | 28.77   | 11    | .....            | .....           | .....      | .....     | 82                                         | 69                                         | 44                                  |
| Newark.....         | 30.17         | 30.69    | 25    | 28.79   | 11    | .....            | .....           | .....      | .....     | 65*                                        | 61†                                        | 54                                  |
| New York, N. Y..... | 30.20         | 30.70    | 25    | 28.76   | 11    | 18               | 67              | nw.        | 2         | 64                                         | 57                                         | 56                                  |
| Ridgefield.....     | 30.17         | 30.69    | 25    | 28.82   | 11    | .....            | 46              | n.         | 28        | 71                                         | 62                                         | 55                                  |
| Manly Hook.....     | 30.17         | 30.68    | 25    | 28.74   | 11    | 19               | 72              | ne.        | 11        | 70                                         | 66                                         | 60                                  |
| Princeton.....      | 30.18         | 30.70    | 25    | 28.74   | 11    | 13               | 60              | ne.        | 11        | 76                                         | 68                                         | 56                                  |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



§§ Instruments are read in the morning; the maximum temperature then read is charge



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

MAR 29 1922

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist,

VOL. XXVII. TRENTON, N. J., FEBRUARY, 1922. No. 2.

## GENERAL SUMMARY.

The general weather conditions of the month were without special feature. There were slight deficiencies in all the usual elements, except warmth, of which there was little excess. The temperature in February of 1922 in New Jersey averaged the same as in 1919, and was only slightly cooler than in 1921. These warm months, taken in connection with the popular psychological belief that our winters are now milder than formerly, are grasped as tending to prove this belief. This belief is erroneous as is easily shown by comparing the mean of the average temperatures of the 19 years from 1885 to 1903, inclusive, with the 19 years from 1904 to 1922, inclusive; 30.6° for the earlier period, as against 29.7° for the latter. Namely, our winters, or rather, months of February, have been colder in recent years than in earlier times. But it is not safe to assert that these figures prove what they appear to. In the earlier days of observations there were not so many carefully trained observers as now, and instrumental exposure was not so uniformly correct as now, and the earlier inaccuracies would more likely tend to readings slightly too high than too low. It would therefore seem more in keeping with the figures and all other applicable facts to assert that the last 19 Februaries were the same in warmth and coldness as the 19 Februaries immediately preceding.

The coldest weather of the winter occurred on the 17th, when temperatures were generally below zero. Except from the 14th to the 18th, the temperature was mostly above normal.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 33.6°, which was 4.0° above the normal. The highest temperature was 73° at Camp Dix on the 14th, and the lowest, 18° below zero at Culvers Lake on the 17th. The greatest daily range of temperature was 45° at Indian Hills on the 1st. The highest monthly mean was 38.2° at Highland, and the lowest, 28.6° at Charlotteburg.

The temperature departure from the normal for the year 1922 to date, by sections, is: The Highlands, +1.2°; Red Sandstone Plain, +0.4°; Southern Interior, +1.1°; Sea Coast, +1.0°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 39 stations, was 2.94 inches, which was 0.63 inch below the normal. The greatest monthly precipitation was 6.0 inches at Cape May City, and the least, 1.80 inches at Essex. The average total snowfall was 8.5 inches, which was 1.5 inches below the normal; this average depth ranged from 9 inches in the Highlands to 7.0 inches on the Red Sandstone Plain. The greatest precipitation accumulated in any 24 consecutive hours was 1.40 inches at South Orange on the 15th. The average number of days on which 0.01 inch or more of precipitation fell was 10, which was 1 more than the normal.

The precipitation accumulated departure from the normal for the year 1922 to date, by sections, is: The Highlands, -2.71 inches; Red Sandstone Plain, -2.31 inches; Southern Interior, -0.45 inch; Sea Coast, -0.89 inch.

## WIND.

The prevailing wind direction was from the northwest, with a velocity of 14 miles per hour, which was normal. The highest wind velocity, sustained for 5 consecutive minutes, was 58 miles per hour from the southwest at Atlantic City on the 2d. High winds were noted also on the 3d, 8th, 23d, and 28th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 10, which was 1 less than the normal; partly cloudy days, 8, or normal; cloudy days, 10, which was 1 more than the normal. The per cent of possible sunshine was 51, which was 5 per cent below the normal.

## MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.14 inches, which was 0.04 inch above the normal. The highest reading was 30.64 inches at Ridgefield on the 14th, and the lowest, 29.42 inches at Sandy Hook and Trenton on the 2d.

The mean stage of the Delaware River at Phillipsburg was 3.3 feet, and the highest stage was 8.0 feet on the 25th. At Trenton the mean daily stage was 2.9 feet, which was 0.4 foot below the normal. The highest stage was 10.5 feet on the 3d, and the lowest, 1.3 feet on the 1st and 6th.

Dense fog occurred on the 1st, 2d, 3d, 5th, 6th, 10th, 11th, 15th, 19th, 20th, 21st, 22d, 23d, and 26th. Sleet was observed at a few stations on the 13th, 16th, 19th, 26th, and 27th, and quite generally throughout the State on the 12th and 15th. Solar halos were observed on the 4th, 9th, 17th, 18th, 22d, 24th, and 25th; and lunar halos on the 4th, 7th, and 12th. Thunderstorms occurred over the northern half of the State on the night of the 12th-13th, and were attended by hail at several stations.

## COMPARATIVE DATA FOR FEBRUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 23.9         | 54       | -2      | 3.93           | 5.85      | 1.44   | .....        | .....          | .....   | .....                  |
| 1886..... | 28.9         | 64       | -10     | 5.42           | 8.00      | 4.13   | .....        | .....          | .....   | .....                  |
| 1887..... | 33.9         | 69       | 6       | 5.24           | 6.74      | 4.13   | .....        | .....          | .....   | .....                  |
| 1888..... | 30.6         | 60       | -5      | 3.53           | 6.01      | 2.04   | .....        | .....          | .....   | .....                  |
| 1889..... | 27.7         | 53       | -3      | 2.49           | 3.80      | 1.65   | .....        | .....          | .....   | .....                  |
| 1890..... | 39.9         | 76       | 14      | 4.17           | 5.32      | 2.43   | .....        | .....          | .....   | .....                  |
| 1891..... | 38.0         | 71       | 1       | 5.11           | 7.20      | 3.70   | 6            | 9              | 13      | 10                     |
| 1892..... | 33.6         | 58       | 7       | 1.63           | 3.62      | 0.67   | 7            | 9              | 13      | 7                      |
| 1893..... | 30.1         | 63       | -1      | 5.73           | 8.90      | 3.14   | 7            | 8              | 13      | 11                     |
| 1894..... | 29.7         | 62       | -11     | 4.42           | 6.17      | 3.25   | 9            | 8              | 11      | 11                     |
| 1895..... | 23.6         | 57       | -12     | 1.28           | 2.34      | 0.55   | 13           | 9              | 6       | 5                      |
| 1896..... | 32.1         | 62       | -12     | 6.77           | 10.06     | 4.82   | 9            | 9              | 11      | 12                     |
| 1897..... | 32.5         | 59       | -6      | 3.61           | 6.37      | 2.38   | 8            | 10             | 10      | 8                      |
| 1898..... | 32.7         | 65       | -15     | 3.48           | 5.45      | 1.55   | 12           | 7              | 9       | 9                      |
| 1899..... | 25.8         | 60       | -17     | 6.06           | 8.77      | 3.78   | 10           | 6              | 12      | 15                     |
| 1900..... | 31.0         | 69       | -6      | 5.30           | 7.88      | 3.27   | 9            | 9              | 10      | 10                     |
| 1901..... | 25.4         | 62       | -6      | 0.94           | 1.65      | 0.69   | 15           | 9              | 4       | 4                      |
| 1902..... | 27.4         | 62       | -7      | 6.24           | 8.44      | 4.29   | 12           | 6              | 10      | 9                      |
| 1903..... | 33.7         | 70       | -16     | 4.87           | 6.60      | 3.74   | 12           | 8              | 8       | 10                     |
| 1904..... | 24.8         | 65       | -16     | 2.45           | 3.09      | 1.36   | 13           | 8              | 8       | 8                      |
| 1905..... | 23.4         | 53       | -18     | 2.53           | 3.96      | 0.70   | 14           | 7              | 7       | 7                      |
| 1906..... | 30.9         | 64       | -12     | 2.58           | 3.85      | 1.77   | 14           | 7              | 7       | 7                      |
| 1907..... | 23.6         | 55       | -22     | 2.67           | 3.90      | 1.82   | 14           | 7              | 7       | 8                      |
| 1908..... | 28.1         | 65       | -17     | 4.79           | 7.44      | 2.85   | 10           | 10             | 9       | 9                      |
| 1909..... | 37.8         | 72       | -2      | 4.96           | 6.78      | 3.55   | 6            | 10             | 12      | 12                     |
| 1910..... | 30.5         | 69       | -11     | 3.08           | 4.81      | 1.06   | 10           | 9              | 9       | 10                     |
| 1911..... | 30.9         | 67       | -12     | 2.78           | 4.06      | 1.76   | 8            | 7              | 13      | 11                     |
| 1912..... | 27.7         | 61       | -14     | 2.49           | 3.12      | 1.68   | 11           | 12             | 6       | 5                      |
| 1913..... | 30.6         | 70       | -5      | 2.49           | 3.21      | 1.48   | 16           | 6              | 6       | 7                      |
| 1914..... | 25.9         | 67       | -17     | 2.85           | 4.94      | 1.89   | 12           | 7              | 9       | 9                      |
| 1915..... | 35.7         | 75       | 2       | 5.37           | 7.28      | 2.97   | 11           | 6              | 11      | 8                      |
| 1916..... | 28.1         | 63       | -18     | 4.21           | 6.17      | 2.84   | 10           | 6              | 13      | 11                     |
| 1917..... | 28.1         | 62       | -17     | 1.95           | 2.50      | 0.92   | 10           | 9              | 9       | 11                     |
| 1918..... | 29.0         | 67       | -23     | 2.08           | 3.41      | 1.03   | 12           | 8              | 8       | 7                      |
| 1919..... | 33.6         | 65       | 4       | 3.39           | 6.48      | 1.37   | 15           | 4              | 9       | 10                     |
| 1920..... | 27.9         | 54       | -25     | 4.20           | 7.20      | 2.39   | 11           | 8              | 10      | 11                     |
| 1921..... | 34.0         | 71       | -12     | 3.81           | 5.82      | 2.58   | 10           | 8              | 10      | 10                     |
| 1922..... | 33.6         | 73       | -18     | 2.94           | 4.60      | 1.80   | 10           | 8              | 10      | 10                     |



## Climatological Data for February, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |                 |         |                 |                       | Precipitation, in inches. |                            |                       |                            | No. of days.                   |        |             |         | Prevailing direction of wind. | Observers.                |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-----------------|---------|-----------------|-----------------------|---------------------------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|---------|-------------------------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date.           | Lowest. | Date.           | Greatest daily range. | Total.                    | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. | Cloudy. |                               |                           |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |                 |         |                 |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 31.8                          | +4.7                       | 66       | 23              | -4      | 17              | 35                    | 2.86                      | -0.98                      | 0.75                  | 9.0                        | 8                              | 16     | 5           | 7       | .....                         | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 28.6 <sup>b</sup>             | +3.0                       | 62       | 23              | -8      | 17              | 34                    | 2.89                      | -1.13                      | 0.97                  | 11.0                       | 8                              | 11     | 7           | 10      | sw.                           | Newark Water Dept.        |
| Culvers Lake <sup>††</sup> .....            | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | 2.25                      | -0.81                      | 0.65                  | 15.9                       | 8                              | 10     | 8           | 10      | nw.                           | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 38                       | 30.7                          | +4.5                       | 64       | 23              | -5      | 17              | 34                    | 3.23                      | -0.80                      | 1.15                  | 9.1                        | 8                              | 7      | 11          | 10      | .....                         | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 29.7                          | +6.1                       | 62       | 23              | -10     | 17              | 40                    | 2.57                      | -0.17                      | 0.76                  | 14.0                       | 8                              | 10     | 8           | 10      | s.                            | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 30.0                          | +3.5                       | 65       | 23              | -8      | 17              | 36                    | 1.87                      | -1.69                      | 0.58                  | 14.2                       | 8                              | 10     | 7           | 11      | sw.                           | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 34.2                          | +6.3                       | 68       | 23 <sup>†</sup> | 0       | 17              | 41                    | 2.46                      | -1.18                      | 0.62                  | .....                      | 6                              | 15     | 10          | 3       | .....                         | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 31.2                          | +5.8                       | 60       | 23              | -6      | 17              | 38                    | 1.80                      | -1.58                      | 0.70                  | 10.0                       | 7                              | 14     | 6           | 8       | sw.                           | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 30.9                          | +4.8                       | 68       | 23 <sup>†</sup> | -18     | 17              | 41                    | 2.49                      | -1.04                      | 1.15                  | 11.9                       | 8                              | 11     | 8           | 9       | sw.                           |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |                 |         |                 |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Bergen Point <sup>††</sup> .....            | Hudson.....     | 37               | 25                       | 33.1 <sup>d</sup>             | +3.7                       | 63       | 23              | -1      | 17              | 32                    | 2.68                      | -1.30                      | 0.78                  | 8.0                        | 6                              | .....  | .....       | .....   | ne.                           | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 32                       | 29.9 <sup>b</sup>             | +2.8                       | 63       | 23              | -4      | 17              | 39                    | 2.80                      | -1.17                      | 1.18                  | .....                      | 9                              | 14     | 0           | 14      | nw.                           | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | 3.86                      | +0.43                      | 1.31                  | .....                      | 11                             | 12     | 11          | 5       | .....                         | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 34.2                          | +3.7                       | 66       | 23              | -2      | 17              | 37                    | 3.18                      | -0.99                      | 0.80                  | 7.0                        | 10                             | 7      | 12          | 9       | sw.                           | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 34.2                          | +5.4                       | 68       | 23              | -3      | 17              | 36                    | 3.18                      | -0.36                      | 0.96                  | 6.7                        | 10                             | 11     | 9           | 8       | sw.                           | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 31.6                          | +3.2                       | .....    | .....           | .....   | .....           | .....                 | 2.89                      | -1.37                      | 0.83                  | .....                      | 6                              | 12     | 9           | 7       | sw.                           | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 35.2                          | +4.6                       | 64       | 23              | -1      | 17              | 30                    | 3.21                      | -0.51                      | 1.00                  | 8.3                        | 10                             | 6      | 9           | 13      | nw.                           | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 3                        | 34.0                          | .....                      | 67       | 23              | -2      | 17              | 35                    | .....                     | .....                      | .....                 | 6.0                        | .....                          | 7      | 13          | 8       | ne.                           | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 300              | 35                       | 32.4 <sup>d</sup>             | +2.0                       | 66       | 23              | -3      | 17              | 35                    | 2.50                      | -0.98                      | 0.60                  | 5.3                        | 11                             | 13     | 6           | 9       | nw.                           | Wm. J. Landersdale.       |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 32.0                          | +2.4                       | 65       | 23              | -4      | 17              | 42                    | 3.05                      | -0.42                      | 0.90                  | 7.5                        | 8                              | 7      | 11          | 10      | w.                            | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 80                       | 32.8                          | +3.7                       | 64       | 23              | -1      | 17              | 32                    | 2.44                      | -1.18                      | 0.70                  | 7.2                        | 12                             | 11     | 10          | 7       | sw.                           | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 34.0                          | +3.2                       | 70       | 23              | -2      | 17              | 38                    | 2.65                      | -0.97                      | 0.70                  | 4.0                        | 10                             | 15     | 5           | 8       | u.                            | N. J. Experiment Station. |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 34.2                          | +4.0                       | 64       | 23              | -2      | 17              | 35                    | 2.80                      | -1.41                      | 0.80                  | 9.0                        | 9                              | 4      | 0           | 24      | nw.                           | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 110              | 34                       | 32.2                          | +3.5                       | 67       | 23              | -4      | 17              | 38                    | 3.05                      | -0.91                      | 0.86                  | 6.5                        | 10                             | 8      | 7           | 13      | n.                            | E. D. Pearson.            |
| Ridgefield <sup>††</sup> .....              | Bergen.....     | 70               | 7                        | 32.2                          | .....                      | 60       | 23              | -5      | 17              | 37                    | 3.14                      | .....                      | 0.90                  | 7.7                        | 10                             | 9      | 10          | 9       | n.                            | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 39                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | .....                     | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....   | n.                            | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 200              | 52                       | 32.2                          | +3.2                       | 63       | 23              | -2      | 17              | 28                    | 3.91                      | -0.02                      | 1.40                  | 8.7                        | 11                             | 14     | 6           | 8       | w.                            | Wm. H. Meeder.            |
| New York, N. Y.....                         | .....           | 365              | 52                       | 34.5                          | +3.8                       | 66       | 23              | -2      | 17              | 31                    | 2.97                      | -0.77                      | 0.89                  | 6.7                        | 13                             | 5      | 10          | 13      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 32.9                          | +3.5                       | 70       | 23              | -5      | 17              | 42                    | 3.06                      | -0.77                      | 1.40                  | 7.0                        | 10                             | 10     | 8           | 10      | nw.                           |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |                 |         |                 |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 37.0                          | +3.3                       | 72       | 23              | 1       | 17              | 35                    | 3.02                      | -0.80                      | 0.90                  | 8.5                        | 10                             | 13     | 5           | 10      | w.                            | Henry A. Jordan.          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 35.0                          | +3.7                       | 71       | 23              | 0       | 17              | 35                    | 2.55                      | -0.95                      | 0.83                  | 4.5                        | 9                              | 16     | 5           | 7       | nw.                           | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 34.8                          | .....                      | 73       | 23              | -2      | 17              | 42                    | 1.96                      | .....                      | 0.42                  | .....                      | 13                             | 1      | 3           | 24      | ne.                           | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 29                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | .....                     | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....   | .....                         | Marvin E. Porch.          |
| Hammonton.....                              | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | 3.52                      | +0.11                      | 0.84                  | 10.0                       | 13                             | 11     | 10          | 7       | s.                            | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 33.9                          | +4.5                       | 72       | 23              | -3      | 17              | 41                    | 2.68                      | -0.92                      | 0.95                  | 5.0                        | 9                              | 20     | 2           | 6       | nw.                           | E. H. Savige, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 34.4 <sup>a</sup>             | +4.0                       | 71       | 23              | -3      | 17              | 41                    | .....                     | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....   | n.                            | Wm. R. Hendrickson.       |
| Indian Mills <sup>††</sup> .....            | Burlington..... | 76               | 33                       | 35.2                          | +3.4                       | 72       | 23              | -3      | 18              | 45                    | 3.30                      | -0.15                      | 0.81                  | 8.0                        | 11                             | 8      | 7           | 13      | nw.                           | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 34.6                          | +4.9                       | 72       | 23              | -1      | 17              | 39                    | 3.02                      | -0.55                      | 0.73                  | 5.0                        | 11                             | 13     | 3           | 12      | sw.                           | R. W. Holman.             |
| Moorestown <sup>††</sup> .....              | Burlington..... | 75               | 59                       | 35.5                          | +4.2                       | 72       | 23              | 0       | 17              | 40                    | 2.59                      | -0.89                      | 0.86                  | 5.5                        | 13                             | 11     | 7           | 10      | ne.                           | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | 3.55                      | +0.76                      | 0.64                  | 11.7                       | 12                             | .....  | .....       | .....   | .....                         | William L. Flick.         |
| Pleasantville <sup>††</sup> .....           | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | 3.76                      | +0.95                      | 0.98                  | .....                      | 12                             | 15     | 6           | 7       | .....                         | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 34.2                          | +3.5                       | 70       | 23              | 0       | 17              | 37                    | 2.25                      | -0.94                      | 0.67                  | 6.6                        | 10                             | 6      | 8           | 14      | n.                            | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 36.8                          | +6.0                       | 64       | 20              | -1      | 17              | 36                    | 4.11                      | +0.45                      | 0.78                  | .....                      | 11                             | 13     | 10          | 5       | sw.                           | Frank R. Austin.          |
| Vinland.....                                | Cumberland..... | 109              | 53                       | 38.2                          | +5.7                       | 72       | 23              | 1       | 17              | 35                    | .....                     | .....                      | 0.90                  | .....                      | .....                          | 11     | 9           | 8       | sw.                           | H. C. Himes.              |
| Woodbine.....                               | Cape May.....   | 43               | 28                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                 | 2.62                      | -0.76                      | 0.75                  | 5.2                        | 13                             | 8      | 8           | 12      | nw.                           | W. I. Zechman.            |
| Philadelphia, Pa.....                       | .....           | 117              | 52                       | 36.7                          | +3.9                       | 71       | 23              | 4       | 17              | 35                    | .....                     | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....   | .....                         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 35.4                          | +4.3                       | 73       | 23              | -3      | 17 <sup>†</sup> | 45                    | 3.03                      | -0.27                      | 0.98                  | 7.2                        | 11                             | 12     | 6           | 10      | sw.                           |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |                 |         |                 |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 35.4                          | +4.0                       | .....    | .....           | 0       | 17              | 32                    | 2.08                      | -1.42                      | 0.61                  | .....                      | 8                              | 7      | 13          | 8       | sw.                           | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 36.6                          | +3.6                       | 63       | 20              | 4       | 17              | 26                    | 3.67                      | +0.40                      | 0.85                  | 12.6                       | 15                             | 5      | 14          | 9       | nw.                           | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 58                       | 36.2                          | +2.1                       | 58       | 23              | 6       | 17              | 22                    | 4.60                      | +1.31                      | 0.85                  | 14.9                       | 14                             | 7      | 7           | 14      | nw.                           | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 34.2                          | +3.8                       | 67       | 23              | 0       | 17              | 32                    | 3.00                      | -0.91                      | 0.80                  | 7.5                        | 14                             | 6      | 13          | 9       | nw.                           | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 33.6                          | +3.0                       | 63       | 23              | 3       | 17              | 28                    | 2.27                      | -1.27                      | 0.50                  | 3.6                        | 14                             | 5      | 12          | 11      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 35.2                          | +3.3                       | 67       | 23              | 0       | 17              | 32                    | 3.12                      | -0.38                      | 0.85                  | 9.6                        | 13                             | 6      | 12          | 10      | nw.                           |                           |
| For the State.....                          |                 |                  |                          | 33.6                          | +4.0                       | 73       | 23              | -18     | 17              | 45                    | 2.94                      | -0.63                      | 1.40                  | 8.5                        | 10                             | 10     | 8           | 10      | nw.                           |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsico.



Daily Precipitation for February, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |     |    |     |     |     |     |   |     |     |     |     |     |      |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    | Total. |      |  |
|--------------------------------------------|-----------------|---------------|-----|----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|------|------|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|--------|------|--|
|                                            |                 | 1             | 2   | 3  | 4   | 5   | 6   | 7   | 8 | 9   | 10  | 11  | 12  | 13  | 14   | 15   | 16  | 17  | 18 | 19 | 20 | 21 | 22 | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30 | 31 |        |      |  |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |    |     |     |     |     |   |     |     |     |     |     |      |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Belvidere.....                             | Delaware.....   | .75           |     |    |     | .04 |     |     |   |     | .04 | .20 | .36 | .32 |      | .55  |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Charlotteburg.....                         | Passaic.....    | .97           |     |    |     | .19 |     |     |   | .03 | T.  | .08 | .15 | .25 |      | .42  |     |     |    |    |    |    |    |     |     |     |     | .60 |     |     |    |    |        | 2.86 |  |
| Culvers Lake.....                          | Delaware.....   | .65           | T.  |    |     | T.  | .10 |     |   |     | T.  |     | .08 | .15 | .25  |      | .42 |     |    |    |    |    |    | .05 |     |     |     | .57 |     |     |    |    |        | 2.89 |  |
| Dover.....                                 | Passaic.....    | 1.15          |     |    |     | *   | .21 |     |   | T.  | .05 |     | .65 | T.  |      | .55  |     |     |    |    |    |    |    | .09 |     | .02 |     | .58 |     |     |    |    |        | 2.25 |  |
| Layton.....                                | Delaware.....   | .76           |     |    |     | T.  | .08 |     |   |     | T.  | .04 | .15 | .40 |      | .53  |     |     |    |    |    |    |    | .09 |     |     |     | .53 |     |     |    |    |        | 3.23 |  |
| Newton.....                                | Delaware.....   | .58           |     |    |     | T.  | .07 |     |   | T.  |     | .04 | .25 | .18 |      | .42  |     |     |    |    |    |    |    |     | .03 |     |     | .58 |     |     |    |    |        | 2.57 |  |
| Phillipsburg.....                          | do.....         | .70           | T.  |    |     | T.  | .11 |     |   |     | T.  |     | .25 | .32 |      | .46  |     |     |    |    |    |    |    |     | .03 |     |     | .30 |     |     |    |    |        | 1.87 |  |
| Sussex.....                                | Hudson.....     | *             | T.  |    |     | T.  | .65 |     |   |     | .01 |     | .06 | .30 |      | .38  |     |     |    |    |    |    |    |     | T.  |     |     | .62 |     |     |    |    |        | 2.46 |  |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |    |     |     |     |     |   |     |     |     |     |     |      |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Bergen Point.....                          | Coast.....      | .67           |     |    |     | .26 |     |     |   |     | T.  | .27 | .22 |     | .78  | T.   |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Boonton.....                               | Passaic.....    | 1.18          |     |    |     | .18 | T.  |     |   |     | .02 |     | .24 | .32 |      | .16  | .20 |     |    |    |    |    |    |     |     |     |     | .48 |     |     |    |    |        | 2.68 |  |
| Chatham.....                               | do.....         | 1.31          | .07 |    |     | .36 | .03 |     |   |     | .04 |     | .26 | .47 | T.   | .43  | .07 |     |    |    |    |    |    |     |     | T.  |     | .49 |     |     |    |    |        | 2.80 |  |
| Elizabeth.....                             | Coast.....      | .72           |     |    |     | *   | .33 |     |   |     | .04 | .08 | .23 | .42 |      | .80  |     |     |    |    |    |    |    |     |     | .06 |     | .76 |     |     |    |    |        | 3.86 |  |
| Flemington.....                            | Raritan.....    | .96           |     |    | .04 | .24 |     |     |   | T.  | .07 | .04 | .08 | .42 |      | .58  |     |     |    |    |    |    |    |     | .02 |     |     | .55 |     |     |    |    |        | 3.18 |  |
| Highwood.....                              | Hackensack..... | .83           |     |    | T.  | .21 |     |     |   |     | *   | .07 |     | .35 |      | .78  |     |     |    |    |    |    |    |     | .09 |     |     | .66 |     |     |    |    |        | 3.18 |  |
| Jersey City.....                           | Coast.....      | .65           |     |    | T.  | .25 |     |     |   | T.  | .03 | .07 | .14 | .40 |      | 1.00 | .08 |     |    |    |    |    |    |     |     |     |     | .72 |     |     |    |    |        | 2.89 |  |
| Kearny.....                                | Coast.....      | .90           |     |    |     | .28 |     |     |   |     | .40 | .62 |     | .44 |      | .65  |     |     |    |    |    |    |    |     |     |     |     | .56 |     |     |    |    |        | 3.21 |  |
| Lambertville.....                          | Delaware.....   | .60           |     |    | .04 | .16 |     |     |   | .01 | .04 | .06 | .15 | .38 |      | .76  |     |     |    |    |    |    |    |     | .05 |     |     | .48 |     |     |    |    |        |      |  |
| Little Falls.....                          | Passaic.....    | .90           |     |    | .25 | .15 |     |     |   |     | .04 |     | .30 | .30 |      | .40  | .24 |     |    |    |    |    |    |     |     |     |     | .53 |     |     |    |    |        |      |  |
| Newark**.....                              | Coast.....      | .30           |     |    | .18 | .09 |     |     |   | .05 | .07 | .30 | .02 | .46 |      | .46  |     |     |    |    |    |    |    |     |     |     |     | .62 |     |     |    |    |        | 2.50 |  |
| New Brunswick.....                         | Raritan.....    | .70           |     |    | .03 | .20 |     |     |   | .03 | .07 | .12 | .36 |     | .51  | T.   |     |     |    |    |    |    |    |     |     |     | .07 |     | *   | .50 |    |    |        | 3.05 |  |
| Paterson.....                              | Passaic.....    | .80           |     |    | T.  | .26 |     |     |   |     | .03 | .01 | .24 | .23 |      | .60  |     |     |    |    |    |    |    |     |     |     |     | .60 |     |     |    |    |        | 2.44 |  |
| Plainfield.....                            | Raritan.....    | .86           |     |    | .04 | .22 |     |     |   | .03 | .01 | .24 | .23 |     | .60  |      |     |     |    |    |    |    |    |     |     |     |     | .67 |     |     |    |    |        | 2.65 |  |
| Ridgefield**.....                          | Hackensack..... | .90           |     |    | T.  | .18 |     |     |   | T.  | *   | .05 | .10 | .10 | .53  |      | .54 |     |    |    |    |    |    |     |     |     |     | .55 |     |     |    |    |        | 2.80 |  |
| Somerville.....                            | Raritan.....    | .90           |     |    |     | .18 |     |     |   | *   | .05 | .10 | .10 | .53 |      | .54  |     |     |    |    |    |    |    |     | .02 |     |     | .72 |     |     |    |    |        | 3.05 |  |
| South Orange.....                          | Rahway.....     | .07           | .80 |    | *   | .28 |     |     |   |     | .03 | .06 | .59 |     | 1.40 |      |     |     |    |    |    |    |    |     |     |     |     | .60 |     |     |    |    |        | 3.14 |  |
| New York, N. Y***                          | Coast.....      | .02           | .61 |    | .02 | .19 |     |     |   | .03 | .05 | .64 | .01 |     | .85  | .04  |     |     |    |    |    |    |    |     |     |     | .08 |     | .60 |     |    |    |        | 3.91 |  |
| <i>The Southern Interior.</i>              |                 |               |     |    |     |     |     |     |   |     |     |     |     |     |      |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Bridgeton.....                             | Coast.....      | .70           |     |    | .07 | .40 |     |     |   | .05 |     | .10 |     |     | .90  |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Burlington.....                            | Delaware.....   | .68           |     |    | .05 | .13 | T.  |     |   | .04 | .09 | .03 | .12 |     | .58  | T.   |     |     |    |    |    |    |    |     |     | .15 | .05 |     | .45 |     |    |    |        | 3.02 |  |
| Camp Dix.....                              | Delaware.....   | .42           |     |    | .06 | .08 | .02 |     |   | .01 | .05 | .01 | .14 |     | .39  | .42  |     |     |    |    |    |    |    |     |     |     |     | .83 |     |     |    |    |        | 2.55 |  |
| Clayton.....                               | Maurice.....    | .76           |     |    |     | .09 | .23 |     |   | .03 | .09 | .11 |     | .84 | .19  |      | .07 | .11 |    |    |    |    |    |     |     |     |     | .22 | T.  |     |    |    |        | 1.96 |  |
| Flemington.....                            | Mullica.....    | .95           |     |    | .03 | .09 | .23 |     |   | .03 | .09 | .11 |     | .84 | .19  |      | .07 | .11 |    |    |    |    |    |     |     |     |     | .73 |     |     |    |    |        | 3.52 |  |
| Hightstown.....                            | Raritan.....    | .95           |     |    | .05 | .18 | .03 |     |   |     | .05 | .10 | .14 |     | .60  |      |     |     |    |    |    |    |    |     |     |     | .24 |     | .58 |     |    |    |        | 2.68 |  |
| Maytown.....                               | Delaware.....   | .81           |     |    | .05 | .20 |     |     |   | .01 | .05 | .09 | .01 | .23 |      | .70  | .11 |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Indian Mills.....                          | Mullica.....    | .81           |     |    | T.  | .18 | .20 |     |   | .04 | .13 |     | .23 |     | .70  | .11  |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Lakewood.....                              | Metedeconk..... | .70           |     |    | T.  | .20 | .16 |     |   | .05 | .12 | T.  | .12 |     | .73  | .22  |     |     |    |    |    |    |    |     |     |     |     | .72 |     |     |    |    |        | 3.30 |  |
| Loosewater.....                            | Delaware.....   | .75           |     |    | .04 | .09 | .04 |     |   | .03 | .04 | .05 | .06 |     | .60  | .01  |     |     |    |    |    |    |    |     |     |     | .08 | .05 |     | .59 |    |    |        | 3.02 |  |
| Northfield.....                            | Coast.....      | .51           |     |    | .02 | .11 | .45 |     |   | .02 | .22 | .09 | .15 |     | .57  | .58  |     |     |    |    |    |    |    |     |     |     | .19 |     | .86 |     |    |    |        | 2.59 |  |
| Pleasantville.....                         | Coast.....      | .98           |     |    | .01 | .10 | .42 |     |   | T.  | .02 | .03 | .12 | .16 |      | .39  | .64 |     |    |    |    |    |    |     |     |     | .17 |     | .64 |     |    |    |        | 3.55 |  |
| Princeton***.....                          | Delaware.....   | .13           | .54 | T. |     | .06 | .10 | T.  |   | .03 | .05 | .25 |     | .59 |      | .59  |     |     |    |    |    |    |    |     |     |     |     | .72 |     |     |    |    |        | 3.76 |  |
| Ruckertown.....                            | Coast.....      | .65           |     |    | .01 | .15 | .25 |     |   | .02 | .13 |     | .37 |     | .76  | .38  |     |     |    |    |    |    |    |     |     |     |     | .61 |     |     |    |    |        | 2.25 |  |
| Shelton.....                               | Maurice.....    | .81           |     |    | .03 | .10 | .19 |     |   | .05 | .08 | .13 | .37 |     | .90  |      |     |     |    |    |    |    |    |     |     |     |     | .78 |     |     |    |    |        | 4.11 |  |
| Woodbine.....                              | Coast.....      | *             |     |    |     |     |     |     |   |     | .05 | .08 | .13 | .37 |      | .90  |     |     |    |    |    |    |    |     |     |     | .58 | .10 |     |     |    |    |        |      |  |
| Philadelphia, Pa.....                      | Delaware.....   | .21           | .54 |    | .04 | .08 | .10 |     |   | .05 |     | .03 | .08 |     | .73  |      |     |     |    |    |    |    |    |     |     |     |     |     | .74 | T.  |    |    |        |      |  |
| <i>The Sea Coast.</i>                      |                 |               |     |    |     |     |     |     |   |     |     |     |     |     |      |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Asbury Park.....                           | Coast.....      | .50           |     |    |     | .09 | .12 |     |   | T.  |     | .10 | .34 |     | .32  |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        |      |  |
| Atlantic City**.....                       | do.....         | .05           | .48 |    |     | .09 | .07 | .34 |   | .01 |     | .23 | .18 | .06 |      | .65  | .57 |     |    |    |    |    |    |     |     |     |     |     | .61 |     |    |    |        | 2.08 |  |
| Bay View.....                              | do.....         | .67           |     |    |     | .17 | .12 | .54 |   | .01 | T.  | .35 | .42 | .04 |      | .70  | .71 |     |    |    |    |    |    |     |     |     |     | .21 | .01 |     |    |    |        | 3.67 |  |
| Long Branch**.....                         | do.....         | .07           | .73 | T. |     | .10 | .06 | .19 |   | T.  | .02 | .13 | .30 |     | T.   | .49  | .09 |     |    |    |    |    |    |     |     |     |     | .08 | .01 |     |    |    |        | 4.60 |  |
| New York, N. Y***.....                     | do.....         | .08           | .32 |    |     | .06 | .13 | .03 |   | .02 |     | .05 | .47 | .02 |      | .49  | .04 |     |    |    |    |    |    |     |     |     |     |     | .06 |     |    |    |        | 3.00 |  |
| Philadelphia, Pa.....                      | do.....         |               |     |    |     |     |     |     |   |     |     |     |     |     |      |      |     |     |    |    |    |    |    |     |     |     |     |     |     |     |    |    |        | 2.27 |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.15         | 30.60    | 14    | 29.51   | 2     | 19               | 58              | sw.        | 2         | 86                                         | 78                                         | 43                                  |
| Bay View.....         | 30.18         | 30.62    | 14    | 29.58   | 2     | 10               | 36              | nw.        | 2         | 85                                         | 80                                         | .....                               |
| Long Branch.....      | 30.14         | 30.60    | 14    | 29.45   | 2     | .....            | 42              | nw.        | 28        | 78                                         | 69                                         | 56                                  |
| Newark.....           | 30.12         | 30.62    | 14    | 29.43   | 2     | .....            | .....           | .....      | .....     | 66*                                        | 61†                                        | 52                                  |
| New York, N. Y.....   | 30.15         | 30.62    | 14    | 29.48   | 2     | 19               | 64              | nw.        | 8         | 73                                         | 64                                         | 49                                  |
| Philadelphia, Pa..... | 30.12         | 30.64    | 14    | 29.44   | 2     | 10               | 34              | s.         | 23        | 78                                         | 67                                         | 52                                  |
| Ridgefield.....       | 30.13         | 30.61    | 21    | 29.42   | 2     | .....            | .....           | .....      | .....     | .....                                      | .....                                      | .....                               |
| New York, N. Y.....   | 30.13         | 30.61    | 21    | 29.42   | 2     | 16               | 56              | nw.        | 8         | 78                                         | 71                                         | 52                                  |
| Princeton.....        | 30.13         | 30.60    | 14    | 29.42   | 2     | 12               | 54              | w.         | 3         | 78                                         | 71                                         | 54                                  |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



| Stations.                                   | 1       | 2     | 3    | 4  | 5  | 6    | 7  | 8    | 9     | 10   | 11   | 12   | 13 | 14 | 15 | 16   | 17 | 18 | 19  | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29    | 30    | 31    | Mean. |      |
|---------------------------------------------|---------|-------|------|----|----|------|----|------|-------|------|------|------|----|----|----|------|----|----|-----|----|----|----|----|----|----|----|----|----|-------|-------|-------|-------|------|
| <i>The Highlands and Kittatinny Valley.</i> |         |       |      |    |    |      |    |      |       |      |      |      |    |    |    |      |    |    |     |    |    |    |    |    |    |    |    |    |       |       |       |       |      |
| Belvidere.....                              | Maximum | 43    | 50   | 41 | 36 | 35   | 43 | 36   | 33    | 37   | 39   | 39   | 34 | 37 | 35 | 30   | 22 | 20 | 32  | 48 | 57 | 45 | 52 | 66 | 57 | 40 | 46 | 48 | 35    | ..... | ..... | 40.6  |      |
|                                             | Minimum | 38    | 32   | 30 | 25 | 28   | 32 | 30   | 16    | 19   | 25   | 32   | 27 | 26 | 10 | 19   | 18 | -4 | 0   | 27 | 34 | 27 | 29 | 35 | 24 | 19 | 21 | 31 | 22    | ..... | ..... | 22.9  |      |
| Charlotteburg.....                          | Maximum | 37    | .... | 39 | 36 | 35   | 42 | 41   | 31    | 37   | 34   | 37   | 40 | 32 | 31 | 25   | 21 | 16 | 28  | 49 | 55 | 45 | 57 | 62 | 34 | 34 | 45 | 37 | 37    | ..... | ..... | 37.7  |      |
|                                             | Minimum | ..... | 24   | 24 | 21 | 28   | 29 | 13   | 15    | 22   | 24   | 23   | 25 | 10 | 13 | 14   | -8 | -6 | 25  | 35 | 24 | 27 | 30 | 19 | 13 | 12 | 29 | 25 | ..... | ..... | 19.6  |       |      |
| Dover.....                                  | Maximum | 45    | 49   | 41 | 36 | 34   | 42 | 35   | 27    | 35   | 35   | 39   | 36 | 33 | 32 | 28   | 29 | 22 | 30  | 49 | 56 | 48 | 58 | 64 | 53 | 41 | 46 | 38 | 39    | ..... | ..... | 40.0  |      |
|                                             | Minimum | 11    | 33   | 31 | 25 | 25   | 31 | 39   | ..... | 34   | 40   | 36   | 36 | 31 | 32 | 28   | 30 | 14 | 27  | 46 | 55 | 45 | 54 | 62 | 56 | 39 | 45 | 42 | 38    | ..... | ..... | 39.9  |      |
| Layton.....                                 | Maximum | 44    | 48   | 45 | 35 | 34   | 41 | 39   | ..... | 34   | 40   | 36   | 36 | 34 | 32 | 28   | 30 | 6  | -10 | -5 | 27 | 35 | 25 | 28 | 30 | 15 | 17 | 29 | 20    | ..... | ..... | 19.5  |      |
|                                             | Minimum | 4     | 32   | 32 | 25 | 22   | 32 | 28   | 9     | 11   | 19   | 31   | 23 | 22 | 5  | 9    | 6  | -8 | -3  | 26 | 36 | 26 | 30 | 35 | 20 | 17 | 20 | 28 | 20    | ..... | ..... | 38.4  |      |
| Newton.....                                 | Maximum | 41    | 45   | 41 | 34 | 33   | 42 | 38   | 28    | 34   | 36   | 38   | 37 | 32 | 28 | 26   | 28 | 13 | 28  | 45 | 53 | 45 | 52 | 65 | 56 | 38 | 43 | 38 | 38    | ..... | ..... | 21.1  |      |
|                                             | Minimum | 15    | 31   | 33 | 23 | 24   | 30 | 28   | 15    | 19   | 24   | 31   | 23 | 23 | 11 | 18   | 8  | -8 | -3  | 26 | 36 | 26 | 30 | 35 | 20 | 17 | 20 | 28 | 20    | ..... | ..... | 42.2  |      |
| Phillipsburg.....                           | Maximum | 44    | 48   | 43 | 44 | 35   | 44 | 44   | 34    | 37   | 38   | 40   | 38 | 36 | 37 | 30   | 32 | 21 | 32  | 45 | 53 | 52 | 55 | 68 | 68 | 38 | 45 | 46 | 41    | ..... | ..... | 25.9  |      |
|                                             | Minimum | 12    | 34   | 33 | 23 | 29   | 34 | 33   | 19    | 21   | 21   | 34   | 29 | 15 | 24 | 20   | 0  | 4  | 30  | 35 | 32 | 34 | 36 | 37 | 22 | 25 | 34 | 35 | ..... | ..... | 41.1  |       |      |
| Sussex.....                                 | Maximum | 47    | 49   | 43 | 36 | 35   | 43 | 40   | 31    | 36   | 38   | 37   | 37 | 34 | 35 | 28   | 28 | 22 | 29  | 51 | 57 | 48 | 55 | 60 | 59 | 49 | 48 | 38 | 38    | ..... | ..... | 21.4  |      |
|                                             | Minimum | 9     | 33   | 33 | 25 | 23   | 32 | 30   | 15    | 12   | 23   | 31   | 25 | 23 | 13 | 11   | 10 | -6 | -3  | 21 | 36 | 35 | 29 | 33 | 21 | 16 | 18 | 30 | ..... | ..... | ..... |       |      |
| <i>The Red Sandstone Plain.</i>             |         |       |      |    |    |      |    |      |       |      |      |      |    |    |    |      |    |    |     |    |    |    |    |    |    |    |    |    |       |       |       |       |      |
| Bergen Point.....                           | Maximum | 41    | 47   | 47 | 44 | .... | 43 | 40   | 32    | .... | .... | 40   | 40 | 36 | 33 | 34   | 31 | 16 | 35  | 43 | 53 | 45 | 55 | 63 | 53 | 40 | 44 | 39 | 41    | ..... | ..... | 41.4  |      |
|                                             | Minimum | 18    | .... | 35 | 27 | 29   | 32 | .... | 19    | .... | .... | 32   | 29 | 29 | 18 | .... | 11 | -1 | 3   | 6  | 31 | 34 | 31 | 30 | 31 | 26 | 22 | 27 | 31    | 24    | ..... | ..... | 24.8 |
| Boonton§§.....                              | Maximum | 45    | 48   | 43 | 38 | 36   | 44 | 40   | 29    | 36   | 34   | 39</ |    |    |    |      |    |    |     |    |    |    |    |    |    |    |    |    |       |       |       |       |      |

\* , b , c , etc., indicate, respectively, 1, 2, 3, etc., days missing from the record, to the preceding day, on which it almost always occurs.



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

APR 29 1922

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist,

VOL. XXVII. TRENTON, N. J., MARCH, 1922. No. 3.

## GENERAL SUMMARY.

The weather during the month of March, 1922 in New Jersey, as, for the most part, typical, the main exceptions being that the disagreeable characteristics were slightly less rigorous than as frequently been the case. There were periods of subnormal warmth at the beginning of the month, again in the third week, and at the close, but these deficiencies were not severe. The other portions of the month were warm, favorable to out-of-door occupations, and more than counterbalanced the less auspicious periods.

There was an excess of warmth, moisture and cloudiness, but a very agreeable deficiency of snow and blustery weather. A few inches of snow fell over northern districts on the 2d, but there was none thereafter except a few unimportant flurries. The progress of vegetation was slow but constant, and there was actually no forcing of buds, and excessive development was checked by temperatures close to freezing at the close of the month.

Streams and ponds returned to a normal level, but there continued to be indications of a slight deficiency of ground water. Snowing was somewhat difficult in some districts on account of lack of soil moisture.

Storm warnings were displayed along the coast on the 1st, 3d, 5th, 6th, 7th, 10th, 15th, 19th, 20th, 21st, 30th and 31st.

## TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 36 stations was 41.1°, which was 2.6° above the normal. The highest temperature was 82° at Long Branch on the 26th, and the lowest, 2° at Culvers Lake and Layton on the 1st. The highest monthly mean temperature was 44.6° at Edgewater, Moorestown, and Vineland, and the lowest, 36.4° at Layton. The greatest daily range of temperature was 49° at Charlotteburg on the 26th.

The temperature departure from the normal for the year 1922 to date, by sections, is: The Highlands, +1.6°; Red Sandstone Plain, +1.0°; Southern Interior, +1.7°; Sea Coast, +1.4°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 40 stations was 4.52 inches, which was 0.64 inch above the normal. The greatest monthly precipitation was 7.10 inches at Newark, and the least, 3.42 inches at Indian Mills. The average total snowfall was 3.7 inches, which was 2.2 inches above the normal; this average ranged from 7.2 inches in the Highlands to 1.4 inches in the Southern Interior. The greatest precipitation accumulated in any 24 consecutive hours was 1.87 inches at Newark on the 7th. The average number of days on which .01 inch or more of precipitation fell was 13, which was more than the normal.

The precipitation accumulated departure from the normal for the year 1922 to date, by sections, is: The Highlands, -1.94 inches; Red Sandstone Plain, -1.20 inches; Southern Interior, -0.25 inch; Sea Coast, -0.47 inch.

## WIND.

The prevailing wind direction was from the northwest, with a velocity of 15 miles per hour, which was 1 mile above the normal. The highest wind velocity, sustained for 5 consecutive minutes, was 68 miles per hour from the south on the 7th at Atlantic City.

## SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 12, which was 2 less than the normal; partly cloudy 6, which was 2 less than the normal; cloudy, 13, which was 4 more than the normal. The mean per cent of possible sunshine was 52, which was 9 per cent below the normal.

## MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 6.7 feet, and the highest, 15.0 feet on the 9th. At Trenton the mean daily stage was 4.2 feet, which was 0.1 foot above the normal; the highest stage was 9.8 feet on the 9th.

The mean atmospheric pressure, reduced to sea level, was 30.11 inches, which was 0.10 inch above the normal. The highest reading was 30.72 inches at Sandy Hook on the 1st, and the lowest, 29.31 inches at Sandy Hook on the 7th. Dense fog was reported on the 4th, 7th, 10th, 13th, 20th, 26th, 27th, and 28th. Haze was observed on the 6th and 9th, and smoke on the 26th. Sleet occurred generally throughout the State on the 2d, 4th, and 30th, and at a few stations on the 1st, 5th, 11th, 12th, 15th, 20th, and 31st. Solar halos were observed on the 1st, 3d, 7th, 9th, 13th, 14th, 18th, 19th, 24th, 26th, 27th, and 28th and lunar halos on the 2d and 9th. Thunderstorms occurred in some portions of the State on the 2d, 7th, 20th, 28th, 29th, and 31st.

## COMPARATIVE DATA FOR MARCH.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.4         | 66       | 2       | 1.10           | 2.29      | 0.23   | .....        | .....          | .....   | .....                  |
| 1886..... | 37.7         | 70       | 9       | 3.70           | 5.27      | 2.59   | .....        | .....          | .....   | .....                  |
| 1887..... | 37.7         | 61       | 8       | 3.34           | 5.45      | 2.19   | .....        | .....          | .....   | .....                  |
| 1888..... | 32.8         | 72       | 0       | 5.71           | 8.22      | 3.75   | .....        | .....          | .....   | .....                  |
| 1889..... | 40.5         | 67       | 19      | 3.79           | 6.49      | 1.98   | .....        | .....          | .....   | .....                  |
| 1890..... | 37.6         | 78       | 0       | 6.08           | 7.92      | 4.14   | .....        | .....          | .....   | .....                  |
| 1891..... | 37.2         | 68       | 4       | 5.06           | 8.02      | 2.05   | .....        | .....          | .....   | .....                  |
| 1892..... | 34.4         | 64       | 6       | 4.75           | 7.21      | 3.11   | .....        | .....          | .....   | .....                  |
| 1893..... | 37.0         | 68       | 6       | 3.73           | 6.26      | 2.36   | .....        | .....          | .....   | .....                  |
| 1894..... | 44.2         | 83       | 12      | 1.77           | 2.65      | 1.09   | .....        | .....          | .....   | .....                  |
| 1895..... | 36.7         | 72       | 7       | 3.16           | 4.66      | 1.77   | .....        | .....          | .....   | .....                  |
| 1896..... | 34.0         | 69       | -8      | 5.34           | 7.38      | 3.14   | .....        | .....          | .....   | .....                  |
| 1897..... | 40.0         | 77       | 18      | 2.78           | 4.32      | 1.55   | .....        | .....          | .....   | .....                  |
| 1898..... | 45.1         | 77       | 16      | 3.33           | 4.25      | 2.56   | .....        | .....          | .....   | .....                  |
| 1899..... | 38.6         | 73       | 13      | 6.54           | 9.58      | 3.45   | .....        | .....          | .....   | .....                  |
| 1900..... | 35.6         | 67       | -9      | 3.51           | 4.96      | 2.48   | .....        | .....          | .....   | .....                  |
| 1901..... | 39.2         | 75       | -8      | 4.64           | 8.07      | 2.40   | .....        | .....          | .....   | .....                  |
| 1902..... | 43.9         | 77       | 0       | 4.34           | 7.20      | 3.16   | .....        | .....          | .....   | .....                  |
| 1903..... | 47.6         | 79       | 13      | 5.13           | 8.53      | 3.60   | .....        | .....          | .....   | .....                  |
| 1904..... | 37.2         | 72       | 1       | 3.43           | 4.76      | 2.02   | .....        | .....          | .....   | .....                  |
| 1905..... | 39.8         | 87       | -7      | 3.95           | 5.06      | 2.80   | .....        | .....          | .....   | .....                  |
| 1906..... | 34.4         | 62       | -15     | 5.09           | 6.77      | 2.91   | .....        | .....          | .....   | .....                  |
| 1907..... | 41.2         | 88       | -11     | 3.04           | 4.38      | 1.81   | .....        | .....          | .....   | .....                  |
| 1908..... | 41.8         | 89       | 7       | 2.80           | 4.92      | 1.06   | .....        | .....          | .....   | .....                  |
| 1909..... | 38.3         | 74       | -6      | 3.48           | 4.66      | 2.31   | .....        | .....          | .....   | .....                  |
| 1910..... | 44.5         | 88       | 10      | 1.22           | 2.36      | 0.29   | .....        | .....          | .....   | .....                  |
| 1911..... | 37.6         | 76       | 3       | 3.38           | 4.50      | 2.64   | .....        | .....          | .....   | .....                  |
| 1912..... | 36.9         | 72       | 3       | 7.61           | 9.61      | 5.95   | .....        | .....          | .....   | .....                  |
| 1913..... | 44.8         | 79       | -1      | 5.15           | 7.73      | 2.47   | .....        | .....          | .....   | .....                  |
| 1914..... | 35.4         | 75       | -6      | 3.65           | 6.45      | 2.02   | .....        | .....          | .....   | .....                  |
| 1915..... | 36.1         | 63       | 6       | 1.13           | 1.65      | 0.58   | .....        | .....          | .....   | .....                  |
| 1916..... | 31.7         | 71       | -9      | 3.48           | 1.96      | 2.38   | .....        | .....          | .....   | .....                  |
| 1917..... | 38.2         | 72       | 0       | 4.65           | 7.14      | 2.28   | .....        | .....          | .....   | .....                  |
| 1918..... | 41.8         | 82       | 0       | 2.06           | 3.76      | 0.99   | .....        | .....          | .....   | .....                  |
| 1919..... | 43.2         | 77       | 12      | 5.32           | 7.40      | 3.77   | .....        | .....          | .....   | .....                  |
| 1920..... | 39.4         | 79       | -8      | 3.80           | 5.36      | 2.29   | .....        | .....          | .....   | .....                  |
| 1921..... | 49.1         | 82       | 9       | 3.03           | 4.65      | 1.80   | .....        | .....          | .....   | .....                  |
| 1922..... | 41.1         | 82       | 2       | 4.52           | 7.10      | 3.42   | .....        | .....          | .....   | .....                  |



## Climatological Data for March, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |                 |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                 |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|-----------------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|---------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest.         | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation, 0.1 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 40.6                          | +2.5                       | 76       | 26    | 15              | 1     | 44                        | 4.74   | +0.89                      | 1.25                  | 3.8                        | 13                              | 18     | 2           | 11                            | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 37.0                          | +1.2                       | 74       | 26    | 10              | 1     | 49                        | 5.10   | +0.90                      | 1.62                  | 7.0                        | 10                              | 12     | 7           | 12                            | nw.        | Newark Water Dept.        |
| Culvers Lake††.....                         | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | 2               | 1     | .....                     | 4.34   | +0.87                      | 1.05                  | 14.6                       | 16                              | 10     | 11          | 10                            | nw.        | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 38                       | 38.8 <sup>b</sup>             | +3.6                       | 75       | 26    | 13              | 1     | 45                        | 4.79   | +0.80                      | 1.34                  | 4.2                        | 15                              | 5      | 14          | 12                            | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 36.4 <sup>a</sup>             | +0.8                       | .....    | ..... | 2               | 1     | 38 <sup>a</sup>           | 4.87   | +1.50                      | 1.19                  | 7.5                        | 14                              | .....  | .....       | .....                         | n.         | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 37.4 <sup>b</sup>             | +1.9                       | 72       | 26    | 11              | 1     | 31 <sup>a</sup>           | .....  | .....                      | .....                 | 12.0                       | .....                           | 13     | 3           | 15                            | sw.        | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 42.6                          | +4.5                       | 76       | 26    | 18              | 1     | 36                        | 4.08   | +0.54                      | 1.36                  | 2.0                        | 13                              | 15     | 9           | 7                             | .....      | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 38.9                          | +2.6                       | 75       | 26    | 8               | 1     | 46                        | 3.45   | -0.14                      | 1.12                  | 6.5                        | 13                              | 14     | 6           | 11                            | nw.        | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 38.9                          | +2.6                       | 76       | 26    | 2               | 1     | 49                        | 4.48   | +0.77                      | 1.62                  | 7.2                        | 13                              | 12     | 8           | 11                            | nw.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 25                       | 40.3 <sup>b</sup>             | +0.8                       | 73       | 26†   | 17              | 1     | 37                        | 4.01   | +0.01                      | 0.99                  | 1.0                        | 9                               | .....  | .....       | .....                         | nw.        | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 32                       | 38.6                          | +2.0                       | 72       | 26    | 14              | 1     | 43                        | 5.17   | +1.23                      | 1.62                  | .....                      | 9                               | 18     | 0           | 13                            | nw.        | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 5.17   | +1.43                      | 1.17                  | .....                      | 9                               | 16     | 8           | 7                             | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 42.3                          | +3.5                       | 77       | 26    | 16              | 1     | 43                        | 4.80   | +0.58                      | 1.06                  | 3.0                        | 12                              | 12     | 6           | 13                            | nw.        | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 42.5                          | +2.4                       | 77       | 26    | 17              | 1     | 43                        | 4.42   | +0.53                      | 1.05                  | 6.0                        | 13                              | 14     | 4           | 13                            | nw.        | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 40.4                          | +3.4                       | 75       | 26    | 13              | 1     | 44                        | 3.96   | -0.22                      | 0.72                  | .....                      | 11                              | 14     | 7           | 10                            | nw.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 42.6                          | +3.4                       | 78       | 26    | 19              | 1     | 40                        | 4.51   | +0.36                      | 1.04                  | 3.7                        | 12                              | 13     | 8           | 10                            | nw.        | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 3                        | 41.6                          | .....                      | 78       | 26    | 17              | 1     | 42                        | 5.61   | .....                      | 1.10                  | 3.0                        | 13                              | 6      | 17          | 8                             | sw.        | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 39.8 <sup>b</sup>             | +0.4                       | 74       | 26    | 15              | 1     | 41                        | 4.46   | +0.43                      | 1.25                  | 1.5                        | 15                              | 14     | 4           | 13                            | nw.        | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | .....                         | .....                      | .....    | ..... | 14              | 1     | .....                     | 4.96   | +1.37                      | 1.18                  | 4.0                        | 9                               | 11     | 10          | 10                            | ne.        | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 80                       | 40.6                          | +1.6                       | 75       | 26    | 17              | 1     | 38                        | 7.10   | +3.23                      | 1.87                  | 3.4                        | 13                              | 11     | 10          | 10                            | nw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 41.6                          | +2.8                       | 75       | 26    | 17              | 1     | 41                        | 4.28   | +0.47                      | 1.01                  | .....                      | 12                              | 16     | 5           | 10                            | n.         | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 4.19   | .....                      | 1.45                  | .....                      | 10                              | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 42.4                          | +3.6                       | 77       | 26    | 17              | 1     | 42                        | 5.85   | +1.47                      | 1.26                  | 6.0                        | 12                              | 6      | 0           | 25                            | nw.        | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 110              | 34                       | 40.4                          | +1.6                       | 77       | 26    | 15              | 1     | 42                        | 5.60   | +1.33                      | 1.23                  | 3.2                        | 11                              | 12     | 5           | 14                            | nw.        | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 70               | 7                        | 39.5                          | .....                      | 76       | 26    | 15              | 1     | 42                        | 4.68   | .....                      | 1.08                  | 5.4                        | 14                              | 11     | 7           | 13                            | nw.        | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 39                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 6.03   | +2.17                      | 1.50                  | 4.0                        | 14                              | 17     | 5           | 9                             | w.         | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 200              | 52                       | 40.4                          | +3.3                       | 74       | 26    | 16              | 1     | 38                        | .....  | .....                      | .....                 | .....                      | 9                               | .....  | .....       | .....                         | .....      | Wm. H. Meeder.            |
| Woodcliff Lake††.....                       | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 3.72   | .....                      | 1.19                  | .....                      | .....                           | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| New York, N. Y.....                         |                 | 365              | 52                       | 41.3                          | +3.8                       | 72       | 26    | 17              | 1     | 33                        | 4.35   | +0.25                      | 0.98                  | 3.3                        | 13                              | 6      | 11          | 14                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 40.9                          | +2.4                       | 78       | 26    | 13              | 1     | 44                        | 4.93   | +1.11                      | 1.87                  | 3.7                        | 12                              | 13     | 6           | 12                            | nw.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                           |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                           | .....  | .....       | .....                         | .....      | Thomas J. Durell.         |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 44.6                          | +2.3                       | 79       | 26    | 20              | 1     | 42                        | 4.90   | +0.72                      | 1.00                  | T                          | 11                              | 16     | 1           | 14                            | w.         | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 43.6                          | +3.2                       | 77       | 26    | 18              | 1     | 41                        | 4.03   | +0.34                      | 1.03                  | 2.0                        | 13                              | 18     | 2           | 11                            | nw.        | D. S. B. McCoy.           |
| Camp Dix††.....                             | Burlington..... | 127              | 4                        | 39.4 <sup>d</sup>             | .....                      | .....    | ..... | 16              | 1     | .....                     | .....  | .....                      | .....                 | .....                      | .....                           | 1      | 3           | 27                            | nw.        | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 29                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 4.12   | +0.53                      | 0.93                  | 0                          | 11                              | 14     | 8           | 9                             | .....      | Marvin E. Porch.          |
| Hammonton.....                              | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 4.55   | +0.51                      | 1.01                  | 4.0                        | 13                              | 15     | 3           | 13                            | ne.        | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 41.8                          | +1.4                       | 76       | 26    | 16 <sup>a</sup> | 18    | 44                        | .....  | .....                      | .....                 | .....                      | .....                           | .....  | .....       | .....                         | .....      | E. H. Savige, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 42.3                          | +3.2                       | 76       | 26    | 17              | 1     | 43                        | 4.06   | -0.02                      | 0.90                  | 2.0                        | 16                              | 15     | 3           | 13                            | w.         | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 33                       | 42.8                          | +2.3                       | 78       | 26    | 15              | 18    | 44                        | 3.42   | -0.61                      | 0.50                  | 1.0                        | 13                              | 11     | 6           | 14                            | s.         | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 41.6                          | +2.0                       | 77       | 26    | 17              | 1     | 45                        | 4.16   | +0.18                      | 0.72                  | .....                      | 13                              | 12     | 2           | 17                            | nw.        | R. W. Holman.             |
| Moorestown††.....                           | Burlington..... | 75               | 59                       | 44.6 <sup>b</sup>             | +5.4                       | 80       | 26    | 18              | 1     | 45                        | 3.90   | +0.14                      | 1.13                  | 2.0                        | 15                              | 15     | 4           | 12                            | nw.        | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 4.06   | +0.57                      | 0.99                  | .....                      | 13                              | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 3.84   | +0.37                      | 0.96                  | .....                      | 12                              | 15     | 3           | 13                            | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 41.2                          | +2.1                       | 74       | 26    | 17              | 1     | 39                        | 3.89   | -0.15                      | 0.90                  | 2.0                        | 14                              | 9      | 6           | 16                            | nw.        | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 42.8                          | +2.8                       | 72       | 26    | .....           | ..... | 37 <sup>m</sup>           | 4.18   | -0.07                      | .....                 | .....                      | 12                              | 14     | 11          | 6                             | sw.        | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 44.6                          | +4.1                       | 78       | 26    | 19              | 1     | 40                        | 3.99   | +0.03                      | 0.90                  | 0                          | 12                              | 14     | 6           | 11                            | sw.        | H. C. Himes               |
| Philadelphia, Pa.....                       |                 | 117              | 52                       | 43.6                          | +3.6                       | 75       | 26    | 20              | 1     | 35                        | 4.34   | +0.89                      | 0.95                  | 1.3                        | 16                              | 8      | 6           | 17                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 43.0                          | +2.9                       | 80       | 26    | 15              | 18    | 45                        | 4.08   | +0.20                      | 1.13                  | 1.4                        | 13                              | 13     | 4           | 14                            | nw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 41.0                          | +2.0                       | 78       | 26    | 16              | 1     | 41                        | .....  | .....                      | 1.14                  | T.                         | 9                               | 9      | 12          | 10                            | sw.        | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 41.6                          | +2.8                       | 70       | 29    | 20              | 1     | 27                        | 4.38   | +0.65                      | 1.09                  | T.                         | 14                              | 11     | 6           | 14                            | nw.        | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 38                       | 42.2                          | +1.4                       | 68       | 29    | 20              | 18    | 23                        | 4.55   | +0.82                      | 1.01                  | T.                         | 14                              | 10     | 3           | 18                            | nw.        | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 39.8                          | +1.3                       | 82       | 26    | 17              | 1     | 46                        | 4.56   | +0.22                      | 0.85                  | 5.6                        | 15                              | 8      | 11          | 12                            | nw.        | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 40.2                          | +3.2                       | 69       | 26    | 20              | 1     | 31                        | 3.94   | -0.30                      | 0.95                  | 3.9                        | 15                              | 8      | 9           | 14                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 41.2                          | +2.3                       | 82       | 26    | 16              | 1     | 46                        | 4.36   | +0.42                      | 1.14                  | 1.9                        | 13                              | 9      | 8           | 14                            | nw.        |                           |
| For the State.....                          |                 |                  |                          | 41.1                          | +2.6                       | 82       | 26    | 2               | 1     | 49                        | 4.52   | +0.64                      | 1.87                  | 3.7                        | 13                              | 12     | 6           | 13                            | nw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

about five miles from Woodbine, and will be considered as a continuation of the Woodbine station.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsila; New Milford and Woodcliff are Weehawken.



Daily Precipitation for March, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |     |     |       |     |        |     |     |   |       |       |     |    |     |     |    |    |    |    |        |      |     |    |    |    |    |    |    |    |    |    | Total. |
|--------------------------------------------|-----------------|---------------|-----|-----|-------|-----|--------|-----|-----|---|-------|-------|-----|----|-----|-----|----|----|----|----|--------|------|-----|----|----|----|----|----|----|----|----|----|--------|
|                                            |                 | 1             | 2   | 3   | 4     | 5   | 6      | 7   | 8   | 9 | 10    | 11    | 12  | 13 | 14  | 15  | 16 | 17 | 18 | 19 | 20     | 21   | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |       |     |        |     |     |   |       |       |     |    |     |     |    |    |    |    |        |      |     |    |    |    |    |    |    |    |    |    |        |
| Belvidere.....                             | Delaware.....   | .46           |     |     | .34   | .33 |        | .60 | .18 |   | .10   | .40   | .25 |    | .08 |     |    |    |    |    | 1.25   |      |     |    |    |    |    |    |    |    |    |    |        |
| Charlotteburg.....                         | Passaic.....    | .60           |     |     | * .48 |     | 1.62   |     |     |   | * .33 | .44   |     |    | .08 |     |    |    |    |    | 1.36   |      |     |    |    |    |    |    |    |    |    |    |        |
| Culvers Lake.....                          | Delaware.....   | .52           |     |     | .03   | .32 | .41    | .43 |     |   | .06   | .50   | .32 |    | .02 |     |    |    |    |    | 1.05   | .05  |     |    |    |    |    |    |    |    |    |    |        |
| Dover.....                                 | Passaic.....    | * .42         |     |     | * .43 |     | 1.34   |     |     |   |       | .59   |     |    | .01 |     |    |    |    |    | 1.34   |      |     |    |    |    |    |    |    |    |    |    |        |
| Layton.....                                | Delaware.....   | .50           |     |     | * .39 |     | 1.19   | .19 |     |   | .03   | .55   | .12 |    |     |     |    |    |    |    | 1.08   | .02  |     |    |    |    |    |    |    |    |    |    |        |
| Newton.....                                | Delaware.....   | .56           |     |     | * .30 |     | \$     | \$  |     |   | .26   | .49   | .07 |    |     |     |    |    |    |    | 1.33   | .01  |     |    |    |    |    |    |    |    |    |    |        |
| Phillipsburg.....                          | do.....         | .62           | T.  | .15 | .25   |     | .23    | .36 |     |   | .04   | .26   | .33 |    |     |     |    |    |    |    | 1.36   |      |     |    |    |    |    |    |    |    |    |    |        |
| Sussex.....                                | Hudson.....     | .50           |     |     | .06   | .21 |        | .30 |     |   | .03   | .52   | .17 |    |     |     |    |    |    |    | 1.12   |      |     |    |    |    |    |    |    |    |    |    |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |       |     |        |     |     |   |       |       |     |    |     |     |    |    |    |    |        |      |     |    |    |    |    |    |    |    |    |    |        |
| Bergen Point.....                          | Coast.....      | .40           |     |     | .30   | T.  | T.     | .58 |     |   | .23   | .50   | T.  |    |     |     |    |    |    |    | .99    |      |     |    |    |    |    |    |    |    |    |    |        |
| Boonton   .....                            | Passaic.....    | .55           |     |     | .42   |     | 1.62   |     |     |   | .33   | .24   |     |    |     |     |    |    |    |    | 1.04   | .19  |     |    |    |    |    |    |    |    |    |    |        |
| Chatham   .....                            | do.....         | .49           |     |     | .64   |     | 1.17   |     |     |   | .36   | .49   |     |    |     |     |    |    |    |    | 1.12   | .17  |     |    |    |    |    |    |    |    |    |    |        |
| Elizabeth.....                             | Coast.....      | .60           |     |     | * .42 |     | * .98  |     |     |   | * .36 | .88   |     |    |     |     |    |    |    |    | 1.06   |      |     |    |    |    |    |    |    |    |    |    |        |
| Flemington.....                            | Raritan.....    | .48           |     |     | .23   | .22 | .66    | .30 |     |   | .10   | .41   | .43 |    | .03 |     |    |    |    |    | 1.05   | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Highwood.....                              | Hackensack..... | .65           |     |     | .23   | .30 |        | .50 | .63 |   |       | .40   |     |    | .05 |     |    |    |    |    | .09    |      |     |    |    |    |    |    |    |    |    |    |        |
| Jersey City.....                           | Coast.....      | .93           |     |     | .40   | .10 | .68    | .12 |     |   | .22   | .60   | .03 |    |     |     |    |    |    |    | 1.04   | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Kearny.....                                | Coast.....      | 1.00          |     |     | * .42 |     | * 1.44 |     |     |   | * .33 | .24   |     |    |     |     |    |    |    |    | 1.10   |      |     |    |    |    |    |    |    |    |    |    |        |
| Lambertville.....                          | Delaware.....   | .55           |     |     | .25   | .14 | .71    | .04 |     |   | .17   | .41   | .21 |    | .02 | .01 |    |    |    |    | 1.10   |      |     |    |    |    |    |    |    |    |    |    |        |
| Little Falls,   .....                      | Passaic.....    | .58           |     |     | .55   |     | 1.18   |     |     |   | .38   | .44   |     |    |     |     |    |    |    |    | 1.25   | .03  |     |    |    |    |    |    |    |    |    |    |        |
| Newark**.....                              | Coast.....      | .15           | .20 | .25 | .09   |     | 1.87   |     |     |   | .25   | .41   |     |    |     |     |    |    |    |    | 1.03   | .13  |     |    |    |    |    |    |    |    |    |    |        |
| New Brunswick.....                         | Raritan.....    | .50           |     |     | .23   | .21 | .28    | .48 |     |   | .21   | .65   | .14 |    |     |     |    |    |    |    | .43    | 1.30 |     |    |    |    |    |    |    |    |    |    |        |
| New Milford.....                           | Hackensack..... | .39           |     |     | .44   | .13 | 1.45   |     |     |   | .15   | .57   |     |    |     |     |    |    |    |    | 1.01   |      |     |    |    |    |    |    |    |    |    |    |        |
| Paterson.....                              | Passaic.....    | .67           |     |     | .20   | .25 | 1.20   | .15 |     |   | .15   | .43   | .04 |    |     |     |    |    |    |    | 1.07   |      |     |    |    |    |    |    |    |    |    |    |        |
| Plainfield.....                            | Raritan.....    | .57           |     |     | * .50 |     | * 1.23 |     |     |   | * .20 | 1.01  |     |    |     |     |    |    |    |    | 1.26   | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Ridgefield**.....                          | Hackensack..... | * .67         |     |     | * .43 |     | * .95  |     |     |   | * .30 | .62   |     |    |     |     |    |    |    |    | 1.10   | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Somerville.....                            | Raritan.....    | .57           |     |     | .43   |     | .95    |     |     |   | .62   |       |     |    |     |     |    |    |    |    | 1.08   |      |     |    |    |    |    |    |    |    |    |    |        |
| South Orange.....                          | Rahway.....     | * .58         |     |     | .38   | .04 | 1.47   | .03 |     |   | .22   | .61   |     |    |     |     |    |    |    |    | 1.03   |      |     |    |    |    |    |    |    |    |    |    |        |
| Woodcliff Lake.....                        | Hackensack..... | .33           |     |     | .25   |     | 1.19   |     |     |   | .11   | .36   |     |    |     |     |    |    |    |    | .06    | 1.33 |     |    |    |    |    |    |    |    |    |    |        |
| New York, N. Y***.....                     | Coast.....      | .09           | .38 |     | .37   | .12 | .58    |     |     |   | .18   | .62   |     |    |     |     |    |    |    |    | .09    | .89  | T.  |    |    |    |    |    |    |    |    |    |        |
| <i>The Southern Interior.</i>              |                 |               |     |     |       |     |        |     |     |   |       |       |     |    |     |     |    |    |    |    |        |      |     |    |    |    |    |    |    |    |    |    |        |
| Belle Plain.....                           | Coast.....      | .60           |     |     | .50   |     | .50    | T.  |     |   | 1.00  | .10   |     |    |     |     |    |    |    |    | .35    | .05  |     |    |    |    |    |    |    |    |    |    |        |
| Bridgeton.....                             | Coast.....      | .53           |     |     | .39   | .15 | .61    | .14 |     |   | .36   | .37   | .09 |    | .04 | .10 |    |    |    |    | 1.03   | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Burlington.....                            | Delaware.....   | .53           |     |     | .39   | .15 | .61    | .14 |     |   | .36   | .37   | .09 |    | .04 | .10 |    |    |    |    | 1.03   | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Camp Dix   .....                           | Delaware.....   | .53           |     |     | .39   | .15 | .61    | .14 |     |   | .36   | .37   | .09 |    | .04 | .10 |    |    |    |    | 1.03   | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Clayton.....                               | Maurice.....    | .26           |     |     | .59   | .06 | .36    | .26 |     |   | .46   |       |     |    |     |     |    |    |    |    | .37    |      |     |    |    |    |    |    |    |    |    |    |        |
| Hammononton.....                           | Mullica.....    | .68           |     |     | .35   | .18 | .23    | .80 |     |   | .29   | .45   | .12 |    |     |     |    |    |    |    | .37    |      |     |    |    |    |    |    |    |    |    |    |        |
| Hightstown.....                            | Raritan.....    | .66           | .02 | .42 | .17   |     | .09    | .51 |     |   | .41   | .40   | .12 |    | .01 | .13 |    |    |    |    | .90    |      | .01 |    |    |    |    |    |    |    |    |    |        |
| Imlaystown.....                            | Delaware.....   | .45           |     |     | .48   | .10 | .32    | .02 |     |   | .50   | .24   | .06 |    |     |     |    |    |    |    | .50    |      |     |    |    |    |    |    |    |    |    |    |        |
| Indian Mills.....                          | Mullica.....    | .72           |     |     | .65   | .10 | .30    | .37 |     |   | .45   | .50   | .12 |    |     |     |    |    |    |    | .40    |      |     |    |    |    |    |    |    |    |    |    |        |
| Lakewood.....                              | Metedeconk..... | .44           |     |     | .30   | .17 | .08    | .66 |     |   | .32   | .23   | .18 |    | .01 | .23 |    |    |    |    | .13    | .01  |     |    |    |    |    |    |    |    |    |    |        |
| Moorestown.....                            | Delaware.....   | .60           |     |     | .47   | .02 | .26    | .13 |     |   | .99   | .19   | .01 |    |     |     |    |    |    |    | 1.38   |      |     |    |    |    |    |    |    |    |    |    |        |
| Northfield.....                            | Coast.....      | .48           |     |     | .52   |     | .26    | .10 |     |   | .96   | .24   | .01 |    |     |     |    |    |    |    | .44    | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Pleasantville.....                         | Coast.....      | T. .48        |     |     | .52   |     | .26    | .10 |     |   | .96   | .24   | .01 |    |     |     |    |    |    |    | .44    | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Trenton***.....                            | Delaware.....   | .20           | .53 |     | .19   | .05 | .44    | T.  |     |   | .32   | .44   |     |    | .02 | T.  |    |    |    |    | .78    | T.   | T.  |    |    |    |    |    |    |    |    |    |        |
| Tuckerton.....                             | Coast.....      | .44           |     |     | .59   | .57 | .76    |     |     |   | .31   | * .30 |     |    |     |     |    |    |    |    | .66    |      |     |    |    |    |    |    |    |    |    |    |        |
| Vineland.....                              | Maurice.....    | .44           |     |     | .60   | .11 | .30    |     |     |   | .90   | .16   | .02 |    |     |     |    |    |    |    | .70    |      |     |    |    |    |    |    |    |    |    |    |        |
| Philadelphia, Pa.....                      | Delaware.....   | .23           | .13 |     | .32   | .04 | .94    | T.  |     |   | .30   | .38   |     |    | .02 | .19 |    |    |    |    | .43    |      |     |    |    |    |    |    |    |    |    |    |        |
| <i>The Sea Coast.</i>                      |                 |               |     |     |       |     |        |     |     |   |       |       |     |    |     |     |    |    |    |    |        |      |     |    |    |    |    |    |    |    |    |    |        |
| Asbury Park.....                           | Coast.....      | .26           |     |     | .51   | T.  | .62    |     |     |   | .70   | .44   |     |    |     |     |    |    |    |    | .74    |      |     |    |    |    |    |    |    |    |    |    |        |
| Atlantic City***.....                      | do.....         | .10           | .54 |     | .51   | T.  | .17    | T.  |     |   | 1.02  | .17   |     |    |     |     |    |    |    |    | .26    | T.   |     |    |    |    |    |    |    |    |    |    |        |
| Cape May City.....                         | do.....         | T. .76        |     |     | .78   |     | .31    | .17 |     |   | 1.01  | .07   | .01 |    |     |     |    |    |    |    | .84    |      |     |    |    |    |    |    |    |    |    |    |        |
| Long Branch**.....                         | do.....         | .08           | .33 |     | .83   | .02 | .79    | .01 |     |   | .29   | .66   |     |    |     |     |    |    |    |    | T. .50 |      |     |    |    |    |    |    |    |    |    |    |        |
| Sandy Hook***.....                         | do.....         | .15           | .37 |     | .52   | .04 | .46    | T.  |     |   | .31   | .62   |     |    |     |     |    |    |    |    | .13    | .51  | T.  |    |    |    |    |    |    |    |    |    |        |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine.                             |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.12         | 30.69    | 1     | 29.40   | 7     | 20               | 68              | e.         | 7         | 80                                         | 80                                         | 50                                  |
| Cape May City.....    | 30.15         | 30.69    | 1     | 29.50   | 20    | 10               | 45              | se.        | 7         | 80                                         | 81                                         | 48                                  |
| Long Branch.....      | 30.10         | 30.66    | 1     | 29.34   | 7     | ...              | 60              | se.        | 7         | 83                                         | 76                                         | 48                                  |
| Newark.....           | 30.09         | 30.61    | 1     | 29.38   | 20    | 19               | 70              | s.         | 7         | 75*                                        | 71†                                        | 50                                  |
| New York, N. Y.....   | 30.12         | 30.71    | 1     | 29.39   | 7     | 11               | 37              | s.         | 7         | 68                                         | 63                                         | 56                                  |
| Philadelphia, Pa..... | 30.09         | 30.62    | 1     | 29.39   | 20    | ...              | ...             | ...        | 7         | 73                                         | 63                                         | 50                                  |
| Ridgefield.....       | 30.09         | 30.72    | 1     | 29.31   | 7     | 18               | 62              | s.         | 7         | 73                                         | 72                                         | 56                                  |
| Sandy Hook.....       | 30.10         | 30.68    | 1     | 29.34   | 7     | 13               | 48              | s.         | 7         | 80                                         | 76                                         | 56                                  |
| Trenton.....          | 30.10         | 30.68    | 1     | 29.34   | 7     | 13               | 48              | s.         | 7         | 80                                         | 76                                         | 56                                  |

‡ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for March, 1922.

| Stations.                                   | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | Mean. |       |      |       |    |
|---------------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------|------|-------|----|
| <i>The Highlands and Kittatinny Valley.</i> |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |       |      |       |    |
| Belvidere.....                              | Maximum | 39 | 40 | 48 | 40 | 50 | 63 | 61 | 45 | 49 | 42 | 39 | 56 | 59 | 56 | 53 | 46 | 36 | 43 | 47 | 45 | 41 | 41 | 53 | 64 | 66 | 76 | 60 | 74 | 64 | 50    | 36    | 51.0  |      |       |    |
|                                             | Minimum | 15 | 22 | 20 | 23 | 31 | 28 | 33 | 30 | 25 | 34 | 30 | 26 | 25 | 33 | 39 | 31 | 23 | 18 | 20 | 32 | 32 | 29 | 26 | 35 | 39 | 32 | 46 | 54 | 50 | 29    | 29    | 47.6* |      |       |    |
| Charlotteburg.....                          | Maximum | 28 | 40 | 40 | 38 | 46 | 58 | 53 | 37 | 46 | 37 | 37 | 48 | 55 | 57 | 48 | 40 | 35 | 35 | 52 | 45 | 49 | 39 | 46 | 63 | 58 | 74 | 63 | 71 | 59 | 32    | 27    | 26.5  |      |       |    |
|                                             | Minimum | 10 | 19 | 21 | 14 | 22 | 27 | 27 | 27 | 22 | 28 | 34 | 24 | 18 | 37 | 38 | 28 | 18 | 14 | 15 | 31 | 30 | 26 | 22 | 24 | 30 | 25 | 44 | 50 | 44 | 27    | 27    | 26.5  |      |       |    |
| Dover.....                                  | Maximum | 29 | 41 | 44 | 34 | 47 | 61 | 59 | 40 | 48 | 40 | 39 | 52 | 56 | 57 | 50 | 43 | 33 | 38 | 52 | 45 | 40 | 37 | 51 | 64 | 59 | 75 | 63 | 71 | 63 | 28    | 34    | 28.8* |      |       |    |
|                                             | Minimum | 13 | 21 | 20 | 21 | 32 | 27 | 28 | 30 | 25 | 33 | 32 | 28 | 28 | 50 | 50 | 43 | 33 | 38 | 52 | 42 | 40 | 38 | 49 | 64 | 64 | 72 | 67 | 72 | 67 | 72    | 67    | 72    | 67   |       |    |
| Layton.....                                 | Maximum | 30 | 38 | 46 | 33 | 47 | 56 | 42 | 42 | 42 | 42 | 42 | 50 | 55 | 60 | 53 | 44 | 31 | 38 | 52 | 42 | 40 | 38 | 49 | 64 | 64 | 72 | 67 | 72 | 67 | 72    | 67    | 72    | 67   |       |    |
|                                             | Minimum | 2  | 19 | 16 | 10 | 32 | 28 | 28 | 19 | 30 | 31 | 30 | 19 | 34 | 33 | 28 | 19 | 15 | 15 | 31 | 31 | 22 | 24 | 26 | 31 | 41 | 35 | 46 | 62 | 66 | 72    | 67    | 72    | 67   |       |    |
| Newton.....                                 | Maximum | 28 | 38 | 44 | 40 | 45 | 58 | 58 | 41 | 45 | 40 | 36 | 49 | 55 | 54 | 50 | 46 | 30 | 36 | 46 | 41 | 41 | 35 | 46 | 62 | 66 | 72 | 67 | 72 | 67 | 72    | 67    | 72    | 67   |       |    |
|                                             | Minimum | 11 | 18 | 18 | 20 | 30 | 28 | 36 | 40 | 28 | 33 | 32 | 25 | 28 | 37 | 28 | 26 | 15 | 13 | 18 | 30 | 28 | 26 | 28 | 33 | 35 | 42 | 45 | 50 | 62 | 64    | 76    | 73    | 63   |       |    |
| Phillipsburg.....                           | Maximum | 37 | 38 | 46 | 47 | 51 | 62 | 62 | 60 | 47 | 47 | 41 | 54 | 58 | 58 | 56 | 52 | 42 | 41 | 45 | 47 | 46 | 43 | 34 | 31 | 29 | 33 | 38 | 40 | 49 | 57    | 54    | 32    | 33   |       |    |
|                                             | Minimum | 18 | 23 | 26 | 27 | 33 | 28 | 39 | 34 | 27 | 36 | 37 | 31 | 27 | 35 | 43 | 33 | 27 | 21 | 24 | 34 | 42 | 41 | 37 | 50 | 64 | 64 | 75 | 69 | 74 | 66    | 52    | 44    | 51.0 |       |    |
| Sussex.....                                 | Maximum | 32 | 39 | 47 | 45 | 47 | 63 | 60 | 58 | 46 | 43 | 37 | 50 | 57 | 54 | 53 | 44 | 36 | 38 | 54 | 42 | 41 | 32 | 30 | 25 | 29 | 35 | 43 | 45 | 42 | 29    | 30    | 26.8* |      |       |    |
|                                             | Minimum | 8  | 20 | 13 | 13 | 31 | 20 | 27 | 30 | 22 | 30 | 32 | 28 | 20 | 34 | 31 | 29 | 20 | 11 | 12 | 32 | 32 | 30 | 25 | 29 | 35 | 43 | 45 | 42 | 29 | 30    | 26.8* |       |      |       |    |
| <i>The Red Sandstone Plain.</i>             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |       |      |       |    |
| Bergen Point.....                           | Maximum | 29 | 39 | 43 | 39 | 49 | 59 | 53 | 43 | 43 | 42 | 52 | 56 | 57 | 50 | 45 | 43 | 38 | 47 | 47 | 43 | 39 | 39 | 59 | 73 | 65 | 73 | 66 | 46 | 39 | 48.8* |       |       |      |       |    |
|                                             | Minimum | 17 | 27 | 24 | 27 | 37 | 38 | 36 | 33 | 30 | 34 | 31 | 32 | 30 | 37 | 41 | 31 | 33 | 20 | 20 | 33 | 32 | 28 | 33 | 48 | 50 | 64 | 60 | 72 | 65 | 70    | 60    | 34    | 48.6 |       |    |
| Boonton§§.....                              | Maximum | 29 | 41 | 44 | 48 | 49 | 60 | 59 | 38 | 46 | 39 | 39 | 51 | 55 | 55 | 51 | 42 | 33 | 40 | 48 | 49 | 40 | 38 | 50 | 64 | 60 | 72 | 65 | 70 | 60 | 34    | 37    | 28.5  |      |       |    |
|                                             | Minimum | 14 | 18 | 20 | 20 | 25 | 25 | 29 | 32 | 22 | 30 | 32 | 28 | 23 | 30 | 40 | 33 | 22 | 17 | 18 | 27 | 33 | 30 | 24 | 28 | 37 | 29 | 39 | 50 | 51 | 30    | 29    | 28.5  |      |       |    |
| Elizabeth.....                              | Maximum | 31 | 43 | 46 | 42 | 51 | 61 | 58 | 58 | 48 | 42 | 40 | 55 | 59 | 61 | 56 | 46 | 37 | 42 | 51 | 51 | 53 | 46 | 44 | 52 | 65 | 59 | 77 | 70 | 72 | 70    | 49    | 37    | 52.3 |       |    |
|                                             | Minimum | 16 | 24 | 24 | 27 | 34 | 27 | 33 | 35 | 26 | 34 | 36 | 33 | 27 | 35 | 44 | 32 | 25 | 19 | 20 | 33 | 30 | 24 | 28 | 26 | 31 | 42 | 34 | 48 | 57 | 45    | 32    | 32    | 32.5 |       |    |
| Flemington.....                             | Maximum | 32 | 43 | 51 | 46 | 53 | 65 | 61 | 51 | 48 | 46 | 39 | 57 | 58 | 55 | 50 | 35 | 25 | 20 | 23 | 33 | 30 | 28 | 37 | 42 | 54 | 64 | 58 | 75 | 67 | 70    | 67    | 46    | 50.1 |       |    |
|                                             | Minimum | 17 | 24 | 24 | 25 | 34 | 28 | 33 | 32 | 22 | 33 | 33 | 32 | 24 | 37 | 37 | 33 | 22 | 17 | 17 | 34 | 34 | 46 | 44 | 54 | 63 | 58 | 78 | 66 | 70 | 64    | 48    | 38    | 50.7 |       |    |
| Highwood.....                               | Maximum | 38 | 39 | 43 | 37 | 48 | 54 | 53 | 55 | 45 | 40 | 39 | 50 | 54 | 56 | 54 | 45 | 45 | 40 | 48 | 51 | 45 | 42 | 49 | 54 | 46 | 44 | 54 | 63 | 58 | 78    | 66    | 70    | 64   | 48    | 38 |
|                                             | Minimum | 13 | 24 | 24 | 22 | 34 | 28 | 33 | 32 | 22 | 33 | 33 | 32 | 24 | 37 | 37 | 33 | 22 | 17 | 17 | 34 | 34 | 46 | 44 | 54 | 63 | 58 | 78 | 66 | 70 | 64    | 48    | 38    | 50.7 |       |    |
| Jersey City.....                            | Maximum | 30 | 40 | 46 | 40 | 41 | 57 | 55 | 46 | 46 | 44 | 42 | 56 | 55 | 59 | 55 | 47 | 38 | 44 | 47 | 45 | 53 | 53 | 45 | 42 | 54 | 65 | 61 | 78 | 60 | 62    | 65    | 40    | 38   | 50.7* |    |
|                                             | Minimum | 19 | 25 | 26 | 32 | 32 | 33 | 40 | 34 | 30 | 30 | 36 | 34 | 34 | 33 | 40 | 42 | 34 | 32 | 20 | 24 | 35 | 35 | 30 | 26 | 35 | 41 | 36 | 50 | 50 | 32    | 32    | 32    | 32   | 32.6  |    |
| Kearny.....                                 | Maximum | 30 | 41 | 39 | 36 | 51 | 60 | 60 | 44 | 49 | 43 | 44 | 58 | 60 | 55 | 44 | 38 | 24 | 20 | 24 | 35 | 35 | 30 | 26 | 35 | 41 | 36 | 50 | 50 | 32 | 32    | 32    | 32    | 32   | 32.6  |    |
|                                             | Minimum | 17 | 24 | 26 | 28 | 34 | 35 | 35 | 33 | 29 | 35 | 34 | 34 | 32 | 40 | 44 | 38 | 24 | 20 | 24 | 35 | 35 | 30 | 26 | 35 | 41 | 36 | 50 | 50 | 32 | 32    | 32    | 32    | 32   | 32.6  |    |
| Lambertville.....                           | Maximum | 28 | 40 | 42 | 37 | 42 | 56 | 43 | 46 | 41 | 40 | 55 | 54 | 52 | 45 | 42 | 34 | 24 | 17 | 22 | 32 | 33 | 29 | 26 | 35 | 41 | 33 | 49 | 56 | 39 | 31    | 33    | 31    | 31.6 |       |    |
|                                             | Minimum | 15 | 22 | 23 | 27 | 32 | 42 | 41 | 32 | 25 | 34 | 32 | 31 | 28 | 32 | 41 | 32 | 24 | 17 | 22 | 32 | 33 | 29 | 26 | 35 | 41 | 33 | 49 | 56 | 39 | 31    | 33    | 31    | 31.6 |       |    |
| Little Falls§§.....                         | Maximum | 31 | 43 | 46 | 41 | 42 | 60 | 51 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41    | 41    | 41    | 41   |       |    |
|                                             | Minimum | 14 | 28 | 22 | 23 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29 | 31 | 29    | 31    | 29    | 31   | 29    |    |
| Newark.....                                 | Maximum | 28 | 38 | 45 | 35 | 49 | 55 | 57 | 39 | 46 | 41 | 38 | 53 | 57 | 58 | 50 | 42 | 35 | 39 | 49 | 52 | 40 | 38 | 49 | 63 | 57 | 75 | 64 | 70 | 63 | 36    | 36    | 48.4  |      |       |    |
|                                             | Minimum | 17 | 24 | 24 | 28 | 34 | 36 | 37 | 32 | 29 | 36 | 33 | 36 | 36 | 39 | 41 | 29 | 21 | 25 | 35 | 34 | 27 | 27 | 39 | 41 | 37 | 51 | 52 | 61 | 52 | 36    | 31    | 33    | 32.9 |       |    |
| New Brunswick.....                          | Maximum | 30 | 39 | 44 | 40 | 51 | 65 | 62 | 61 | 47 | 43 | 41 | 52 | 58 | 59 | 55 | 46 | 38 | 40 | 45 | 53 | 46 | 40 | 49 | 62 | 57 | 75 | 72 | 72 | 71 | 48    | 38    | 51.6  |      |       |    |
|                                             | Minimum | 17 | 23 | 23 | 26 | 33 | 28 | 35 | 34 | 25 | 35 | 31 | 29 | 37 | 38 | 43 | 32 | 25 | 19 | 21 | 33 | 34 | 30 | 26 | 35 | 37 | 34 | 49 | 49 | 47 | 31    | 32    | 31.6  |      |       |    |
| Paterson.....                               | Maximum | 30 | 42 | 47 | 36 | 49 | 60 | 58 | 54 | 48 | 40 | 39 | 54 | 59 | 58 | 56 | 49 | 38 | 44 | 52 | 50 | 45 | 43 | 53 | 58 | 60 | 77 | 72 | 75 | 69 | 48    | 36    | 51.9  |      |       |    |
|                                             | Minimum | 17 | 23 | 24 | 27 | 34 | 33 | 32 | 28 | 35 | 34 | 28 | 35 | 34 | 29 | 37 | 43 | 34 | 25 | 21 | 23 | 34 | 35 | 33 | 43 | 53 | 68 | 61 | 75 | 70 | 71    | 64    | 42    | 37   | 50.3  |    |
| Plainfield.....                             | Maximum | 29 | 40 | 44 | 40 | 47 | 66 | 55 | 45 | 48 | 40 | 40 | 53 | 55 | 58 | 56 | 44 | 37 | 41 | 49 | 54 | 43 | 41 | 54 | 63 | 57 | 77 | 70 | 71 | 64 | 42    | 37    | 50.3  |      |       |    |
|                                             | Minimum | 15 | 20 | 20 | 30 | 33 | 25 | 37 | 33 | 22 | 33 | 32 | 32 | 40 | 53 | 55 | 58 | 56 | 44 | 37 | 41 | 49 | 54 | 43 | 41 | 54 | 63 | 57 | 77 | 70 | 71    | 64    | 42    | 37   | 50.3  |    |
| Ridgefield.....                             | Maximum | 28 | 37 | 45 | 36 | 48 | 56 | 56 | 41 | 44 | 40 | 38 | 52 | 54 | 57 | 51 | 43 | 34 | 40 | 47 | 53 | 41 | 40 | 48 | 63 | 55 | 76 | 62 | 71 | 63 |       |       |       |      |       |    |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist,

VOL. XXVII. TRENTON, N. J., APRIL, 1922. No. 4.

### GENERAL SUMMARY.

The great variability of April weather was well exemplified in New Jersey in 1922. A steady warm period from the 6th to the 18th was preceded and followed by subnormal temperatures. Characteristic frequency of rainfall up to the 19th was followed by a virtual absence of moisture that gradually tended toward drought conditions. Early in the month and later in the month there were a few mornings when temperatures were below freezing, but during the warm intervening period, agricultural growth made a substantial advance, only to be checked later by the cold. Some fruit bloom was injured, but the loss was much less than last year. In many sections the ground was so dry and hard that plowing was difficult and unsatisfactory, and the general level of ground waters was low for so early in the season. The days of highest and lowest temperatures were attendant upon the occurrences of lowest and highest pressure, respectively. The month, as a whole, was favorable for out-of-door operations, but was unfavorable for agriculture.

Storm warnings were displayed along the coast on the 1st, 2d, 11th, 17th, 18th, 19th, and 27th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations was 51.0°, which was 1.5° above the normal. The highest temperature was 89° at Paterson on the 10th, and the lowest, 18° at Culvers Lake on the 21st, and Layton on the 22d. The highest monthly mean temperature was 55.0° at Bridgeton, and the lowest, 47.4° at Charlotteburg. The greatest daily range of temperature was 45° at Layton on the 29th.

The temperature departure from the normal for the year 1922 to date, by sections, is: The Highlands, +1.5°; Red Sandstone Plain, +1.1°; Southern Interior, +1.7°; Sea Coast, +1.6°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 2.55 inches, which was 1.08 inches below the normal. The mean total snowfall was trace, which was 0.8 inch below the normal. The greatest monthly precipitation was 4.12 inches at Hightstown, and the least, 1.57 inches at Woodcliffe Lake. The greatest amount of precipitation in any 24 consecutive hours was 1.30 inches at Phillipsburg on the 14th-15th. The mean number of days on which 0.01 inch or more of precipitation occurred was 10, or normal.

The precipitation accumulated departure from the normal for the year 1922 to date, by sections, is: The Highlands, -2.26 inches; Red Sandstone Plain, -2.39 inches; Southern Interior, -1.43 inches; Sea Coast, -1.94 inches.

### WIND.

The prevailing wind direction was from the northwest, with a velocity of 14 miles per hour, which was 1 mile above the normal. The highest wind velocity, sustained for 5 consecutive minutes, was 56 miles per hour from the south at Atlantic City and Sandy Hook on the 11th. High winds were reported also on the 20th.

### SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 15, which was 4 more than the normal; partly cloudy, 7, which was 3 less than the normal; cloudy, 8, which was 1 less than the normal. The per cent of possible sunshine was 66, which was 9 per cent above the normal.

### MISCELLANEOUS.

The mean daily stage of the Delaware River at Phillipsburg was 6.0 feet, and the highest stage, 9.0 feet on the 16th. At Trenton the mean stage was 3.8 feet, which was 0.1 foot below the normal; the highest stage was 5.2 feet on the 16th.

The mean atmospheric pressure, reduced to sea level, was 30.08 inches, which was 0.08 inch above the normal. The highest reading was 30.47 inches at Cape May City on the 24th, and the lowest, 29.22 inches, at Trenton on the 11th.

Dense fog was reported on the 5th, 11th, and 21st. Sleet in inappreciable amounts occurred at Culvers Lake on the 1st and at Ridgefield on the 23d. Solar halos were observed on the 3d, 6th, 9th, 11th, 14th, 25th, 26th, and 28th; and lunar halos on the 2d, 6th, 9th, and 10th. Thunderstorms occurred on the 1st, 9th, 11th, 12th, 14th, and 21st. The aurora was observed on the 11th. Hail fell at Belvidere and Layton on the 12th, Phillipsburg on the 15th, Lambertville and New Brunswick on the 20th, and at South Orange on the 23d; no damage was reported. A meteor was observed at Indian Mills and Lakewood on the 23d. There were no killing frosts in the southern portion of Cape May County; elsewhere they occurred quite generally on the 3d, 6th, 22d, 23d, 24th, and 25th, and at scattered stations on the 21st, 29th, and 30th.

### COMPARATIVE DATA FOR APRIL.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 48.4         | 88       | 26      | 2.79           | 2.86      | 0.89   | .....        | .....          | .....   | .....                  |
| 1886..... | 50.6         | 86       | 27      | 3.40           | 5.48      | 1.86   | .....        | .....          | .....   | .....                  |
| 1887..... | 47.3         | 87       | 16      | 2.70           | 3.77      | 0.91   | .....        | .....          | .....   | .....                  |
| 1888..... | 47.9         | 92       | 22      | 3.28           | 4.68      | 1.89   | .....        | .....          | 12      | 7                      |
| 1889..... | 51.2         | 83       | 25      | 5.32           | 7.25      | 2.92   | .....        | .....          | 6       | 9                      |
| 1890..... | 50.4         | 86       | 21      | 2.65           | 4.58      | 1.89   | .....        | .....          | 14      | 12                     |
| 1891..... | 52.0         | 88       | 20      | 2.19           | 3.80      | 1.39   | .....        | .....          | 7       | 8                      |
| 1892..... | 49.3         | 87       | 19      | 2.49           | 4.41      | 1.05   | 13           | 11             | 6       | 8                      |
| 1893..... | 49.2         | 82       | 19      | 5.21           | 7.12      | 2.97   | 9            | 13             | 8       | 8                      |
| 1894..... | 50.3         | 88       | 19      | 3.09           | 4.86      | 1.71   | 9            | 10             | 12      | 11                     |
| 1895..... | 49.1         | 89       | 19      | 4.88           | 7.75      | 3.47   | 12           | 9              | 9       | 9                      |
| 1896..... | 52.4         | 98       | 19      | 1.35           | 2.30      | 0.64   | 11           | 7              | 12      | 10                     |
| 1897..... | 50.4         | 89       | 12      | 3.79           | 6.98      | 2.17   | 13           | 10             | 7       | 7                      |
| 1898..... | 47.8         | 81       | 13      | 3.74           | 4.94      | 2.17   | 14           | 11             | 5       | 9                      |
| 1899..... | 49.9         | 88       | 18      | 1.73           | 3.25      | 0.48   | 8            | 11             | 11      | 11                     |
| 1900..... | 50.8         | 82       | 18      | 2.29           | 3.03      | 1.59   | 16           | 10             | 4       | 4                      |
| 1901..... | 48.3         | 89       | 23      | 6.31           | 10.22     | 3.46   | 14           | 9              | 7       | 6                      |
| 1902..... | 50.2         | 93       | 20      | 3.62           | 5.99      | 2.45   | 8            | 7              | 15      | 12                     |
| 1903..... | 50.9         | 92       | 18      | 3.97           | 7.03      | 2.40   | 10           | 11             | 9       | 9                      |
| 1904..... | 46.7         | 84       | 16      | 3.42           | 4.71      | 2.00   | 13           | 7              | 10      | 9                      |
| 1905..... | 49.9         | 87       | 18      | 2.88           | 4.03      | 1.53   | 9            | 12             | 9       | 10                     |
| 1906..... | 51.2         | 87       | 17      | 3.64           | 6.42      | 1.17   | 12           | 11             | 7       | 10                     |
| 1907..... | 45.2         | 83       | 19      | 3.78           | 8.67      | 2.06   | 15           | 10             | 5       | 8                      |
| 1908..... | 51.2         | 93       | 13      | 2.72           | 3.86      | 1.42   | 11           | 9              | 10      | 11                     |
| 1909..... | 50.2         | 88       | 17      | 5.97           | 8.90      | 3.84   | 14           | 9              | 7       | 11                     |
| 1910..... | 53.5         | 88       | 20      | 5.34           | 7.56      | 3.43   | 10           | 11             | 9       | 13                     |
| 1911..... | 47.4         | 88       | 14      | 4.11           | 5.58      | 2.87   | 9            | 11             | 10      | 12                     |
| 1912..... | 50.4         | 82       | 18      | 3.56           | 6.02      | 1.81   | 10           | 10             | 10      | 11                     |
| 1913..... | 52.1         | 89       | 19      | 5.78           | 8.53      | 4.14   | 10           | 11             | 11      | 14                     |
| 1914..... | 48.4         | 89       | 15      | 3.67           | 4.78      | 2.35   | 14           | 7              | 9       | 11                     |
| 1915..... | 54.4         | 96       | 20      | 2.71           | 4.13      | 1.28   | 13           | 10             | 7       | 11                     |
| 1916..... | 48.2         | 85       | 20      | 3.32           | 6.14      | 0.90   | 14           | 10             | 6       | 9                      |
| 1917..... | 48.8         | 88       | 15      | 2.39           | 3.54      | 1.19   | 10           | 9              | 11      | 13                     |
| 1918..... | 49.8         | 87       | 18      | 4.05           | 5.79      | 2.88   | 15           | 8              | 7       | 9                      |
| 1919..... | 49.3         | 85       | 10      | 3.06           | 4.79      | 2.20   | 11           | 8              | 11      | 12                     |
| 1920..... | 48.0         | 85       | 10      | 4.50           | 6.06      | 2.90   | 13           | 7              | 10      | 10                     |
| 1921..... | 56.3         | 87       | 15      | 3.57           | 5.20      | 1.86   | 12           | 9              | 9       | 13                     |
| 1922..... | 51.0         | 89       | 18      | 2.55           | 4.12      | 1.57   | 13           | 6              | 11      | 11                     |
|           |              |          |         |                |           |        | 15           | 7              | 8       | 10                     |



## Climatological Data for April, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |                 |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                               |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|-----------------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|-------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest.         | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation of in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                               |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 50.8 <sup>b</sup>             | +1.0                       | 85       | 10    | 26              | 6     | 43°                       | 3.74   | +0.08                      | 1.18                  | T                          | 8                             | 17     | 7           | 6                             | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 47.4                          | +0.6                       | 84       | 10    | 20              | 6     | 42                        | 3.02   | -1.30                      | 1.04                  | T                          | 8                             | 18     | 6           | 6                             | w.         | Newark Water Dept.        |
| Culvers Lake††.....                         | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | .....           | 18    | 21                        | 3.13   | -0.69                      | 1.05                  | 1.2                        | 9                             | 19     | 5           | 6                             | w.         | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 38                       | 49.4                          | +2.0                       | 82       | 10†   | 25              | 22    | 38                        | 2.89   | -0.87                      | 0.86                  | T                          | 10                            | 5      | 20          | 5                             | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 48.5                          | +1.3                       | 86       | 10    | 18              | 22    | 45                        | 3.66   | +0.05                      | 1.12                  | T                          | 9                             | 12     | 5           | 13                            | nw.        | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 48.7 <sup>b</sup>             | +0.7                       | 84       | 10    | 25              | 22    | 34°                       | 2.79   | -0.58                      | 0.96                  | T                          | 9                             | 13     | 10          | 7                             | nw.        | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 50.6                          | +0.7                       | 83       | 10    | 28              | 22    | 35                        | 3.60   | +0.34                      | 1.30                  | 0                          | 8                             | 19     | 5           | 6                             | .....      | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 50.5 <sup>c</sup>             | +1.9                       | 88       | 10    | 22°             | 22    | 42°                       | .....  | .....                      | .....                 | T                          | .....                         | .....  | .....       | .....                         | nw.        | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 49.4                          | +1.2                       | 88       | 10    | 18              | 21†   | 45                        | 3.26   | -0.42                      | 1.30                  | 0.2                        | 9                             | 15     | 8           | 7                             | nw.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                               |        |             |                               |            |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 25                       | 50.1 <sup>d</sup>             | +0.6                       | 86       | 11    | 32              | 1†    | 29 <sup>b</sup>           | 2.51   | -1.88                      | 1.03                  | 0                          | 7                             | .....  | .....       | .....                         | nw.        | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 32                       | 48.4 <sup>b</sup>             | -0.3                       | 83       | 11    | 22              | 22    | 40                        | 2.81   | -1.18                      | 0.92                  | 0                          | 11                            | 19     | 2           | 9                             | nw.        | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | .....  | .....                      | .....                 | T                          | 10                            | 10     | 14          | 6                             | nw.        | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 52.1                          | +1.3                       | 88       | 11    | 28              | 6†    | 39                        | 2.77   | -0.91                      | 0.98                  | T                          | 10                            | 10     | 14          | 6                             | nw.        | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 52.6                          | +2.2                       | 87       | 10    | 28              | 6†    | 36                        | 3.16   | -0.36                      | 0.99                  | 0                          | 10                            | 18     | 5           | 7                             | w.         | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 50.3 <sup>b</sup>             | +1.8                       | 85       | 10†   | 24              | 22    | 41                        | 2.46   | -0.97                      | 0.92                  | .....                      | 10                            | 15     | 11          | 4                             | w.         | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 52.2                          | +2.2                       | 84       | 11    | 33              | 3†    | 36                        | 2.41   | -1.75                      | 1.05                  | 0                          | 7                             | 14     | 10          | 6                             | nw.        | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 3                        | 52.6                          | .....                      | 87       | 10†   | 31              | 21†   | 36                        | 2.50   | .....                      | 1.00                  | 0                          | 8                             | 7      | 16          | 7                             | w.         | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 50.7                          | 0.0                        | 83       | 10    | 28              | 22    | 33                        | 2.80   | -0.78                      | 0.72                  | T                          | 12                            | 20     | 4           | 6                             | w.         | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 50.9                          | +1.0                       | 86       | 10†   | 27              | 22    | 41                        | 2.78   | -1.34                      | 1.03                  | 0                          | 12                            | 12     | 9           | 9                             | nw.        | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 80                       | 51.2                          | +1.2                       | 84       | 10†   | 32              | 21†   | 28                        | 2.44   | -1.30                      | 0.51                  | 0                          | 11                            | 15     | 9           | 6                             | sw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 51.2                          | +1.6                       | 85       | 11    | 28              | 6†    | 35                        | 2.74   | -1.00                      | 0.97                  | 0                          | 11                            | 21     | 5           | 4                             | n.         | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 80               | 51                       | 52.8                          | +2.3                       | 89       | 10    | 29              | 22    | 40                        | 2.04   | .....                      | 0.81                  | 0                          | 8                             | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 110              | 34                       | 49.9                          | +0.3                       | 87       | 10    | 25              | 22    | 41                        | 2.56   | -1.34                      | 0.71                  | 0                          | 11                            | 11     | 14          | 5                             | sw.        | Marion T. Probert.        |
| Plainfield.....                             | Somerset.....   | 70               | 7                        | 50.0                          | .....                      | 86       | 10    | 28              | 22    | 38                        | 2.31   | .....                      | 0.73                  | 0.3                        | 13                            | 13     | 9           | 8                             | nw.        | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 74               | 39                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                         | .....  | .....       | .....                         | .....      | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 200              | 52                       | 50.4                          | +1.9                       | 83       | 10†   | 29              | 22    | 32                        | 2.35   | -1.22                      | 0.71                  | T                          | 8                             | 16     | 9           | 5                             | w.         | Kenneth Bauer.            |
| South Orange.....                           | Essex.....      | 2                | .....                    | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                         | .....  | .....       | .....                         | .....      | Wm. H. Meeder.            |
| Woodcliff Lake††.....                       | Bergen.....     | 365              | 52                       | 51.0                          | +2.9                       | 82       | 10    | 31              | 21    | 24                        | 1.96   | -1.34                      | 0.58                  | 0                          | 8                             | 9      | 12          | 9                             | nw.        | Hackensack Water Co.      |
| New York, N. Y.....                         |                 |                  |                          | 51.0                          | +2.9                       | 82       | 10    | 31              | 21    | 24                        | 1.96   | -1.34                      | 0.58                  | 0                          | 8                             | 9      | 12          | 9                             | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 51.0                          | +1.2                       | 89       | 10    | 22              | 22    | 41                        | 2.49   | -1.19                      | 1.05                  | T                          | 10                            | 15     | 8           | 7                             | nw.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                               |        |             |                               |            |                           |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 52.2                          | +1.6                       | 85       | 10    | 24              | 6     | 37                        | 2.48   | -1.17                      | 1.02                  | 0                          | 14                            | 18     | 3           | 9                             | nw.        | Thomas J. Durell.         |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 55.0                          | +2.3                       | 88       | 10    | 28              | 6     | 35                        | 1.60   | -1.92                      | 0.50                  | 0                          | 6                             | 19     | 0           | 11                            | w.         | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 53.6                          | +1.8                       | 87       | 10    | 29              | 3†    | 37                        | 2.56   | -1.16                      | 0.68                  | 0                          | 10                            | 21     | 1           | 8                             | nw.        | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 52.9 <sup>b</sup>             | .....                      | 86       | 11    | 27 <sup>b</sup> | 22    | 36 <sup>b</sup>           | 2.15   | .....                      | 0.56                  | T                          | 10                            | .....  | .....       | .....                         | se.        | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 29                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                         | .....  | .....       | .....                         | .....      | Marvin E. Porch.          |
| Hammoncton.....                             | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 1.63   | -2.29                      | 0.33                  | 0                          | 11                            | 13     | 11          | 6                             | nw.        | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 50.8 <sup>a</sup>             | +0.3                       | 86       | 11    | 26              | 6†    | 39                        | 4.12   | +0.21                      | 0.75                  | 0                          | 11                            | 20     | 4           | 6                             | nw.        | E. H. Savige, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 51.0                          | +0.5                       | 85       | 10†   | 26              | 6†    | 42                        | 2.62   | -1.82                      | 0.51                  | 0                          | 14                            | 16     | 4           | 10                            | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 33                       | 52.2                          | +1.9                       | 88       | 10    | 25              | 6     | 40                        | 2.34   | -1.09                      | 0.71                  | 0                          | 11                            | 10     | 11          | 9                             | sw.        | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 51.3                          | +1.9                       | 85       | 9     | 26              | 23    | 40                        | 2.58   | -1.09                      | 0.84                  | T                          | 10                            | 14     | 8           | 8                             | ne.        | R. W. Holman.             |
| Moorestown.....                             | Burlington..... | 75               | 59                       | 53.4 <sup>b</sup>             | +3.0                       | 87       | 10    | 29              | 31    | 41                        | 2.31   | -0.98                      | 0.68                  | 0                          | 12                            | 17     | 4           | 9                             | w.         | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 2.48   | -0.98                      | 1.04                  | 0                          | 12                            | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....           | ..... | .....                     | 2.47   | -0.88                      | 1.17                  | 0                          | 9                             | 21     | 2           | 7                             | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 51.6                          | +1.8                       | 83       | 10    | 30              | 22    | 29                        | 1.69   | -1.60                      | 0.82                  | 0                          | 11                            | 9      | 11          | 10                            | w.         | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 50.4                          | +1.1                       | 87       | 10    | 28              | 3†    | 40                        | 2.80   | -0.94                      | 1.27                  | 0                          | 11                            | 18     | 8           | 4                             | sw.        | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 53.6 <sup>b</sup>             | +2.6                       | 86       | 9†    | 28              | 3     | 33                        | 2.57   | -0.83                      | 1.04                  | 0                          | 10                            | 18     | 5           | 7                             | nw.        | H. C. Himes               |
| Philadelphia, Pa.....                       |                 | 117              | 52                       | 54.0                          | +3.2                       | 87       | 10    | 34              | 22    | 25                        | 1.52   | -1.39                      | 0.42                  | 0                          | 12                            | 6      | 14          | 10                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 52.3                          | +1.7                       | 88       | 10    | 24              | 6     | 42                        | 2.43   | -1.18                      | 1.27                  | 0                          | 11                            | 16     | 6           | 8                             | nw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |                 |       |                           |        |                            |                       |                            |                               |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 50.3                          | +1.8                       | 85       | 10    | 31              | 3†    | 36                        | 2.64   | -1.05                      | 1.00                  | 0                          | 10                            | 10     | 14          | 6                             | nw.        | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 49.4                          | +1.6                       | 85       | 10    | 30              | 3     | 31                        | 1.75   | -1.24                      | 1.03                  | 0                          | 10                            | 13     | 9           | 8                             | nw.        | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 38                       | 51.3                          | +2.9                       | 83       | 10    | 35              | 3     | 32                        | 2.41   | -0.58                      | 1.07                  | 0                          | 12                            | 13     | 8           | 9                             | nw.        | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 49.8                          | +1.7                       | 87       | 10    | 31              | 6     | 39                        | 1.93   | -2.62                      | 0.74                  | 0                          | 11                            | 14     | 7           | 9                             | w.         | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 49.6                          | +2.6                       | 81       | 10    | 35              | 21    | 34                        | 2.08   | -1.88                      | 0.58                  | 0                          | 9                             | 11     | 12          | 7                             | w.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 50.1                          | +2.1                       | 87       | 10    | 30              | 3     | 39                        | 2.16   | -1.47                      | 1.07                  | 0                          | 10                            | 12     | 10          | 8                             | nw.        |                           |
| For the State.....                          |                 |                  |                          | 51.0                          | +1.5                       | 89       | 10    | 18              | 21†   | 45                        | 2.55   | -1.08                      | 1.30                  | T                          | 10                            | 15     | 7           | 8                             | nw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

The station at Belle Plain is

about five miles from Woodbine, and will be considered as a continuation of the Woodbine station.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliff are Weehawken.



Daily Precipitation for April, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    | Total. |
|--------------------------------------------|-----------------|---------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|--------|
|                                            |                 | 1             | 2   | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14   | 15   | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26 | 27 | 28 | 29 | 30 | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Belvidere.....                             | Delaware.....   | 1.00          |     |     | .30 |      |     | .37 |     |     |     |     | .26 |     |      | 1.18 |     | .51 | .05 |     |     | .07 |     |     |     |     |    |    |    |    |    |    |        |
| Charlotteburg.....                         | Passaic.....    | 1.04          |     |     | .20 |      |     | .19 |     |     |     |     | .23 |     |      | .86  |     | .46 | .04 |     |     |     |     |     |     |     |    |    |    |    |    |    | 3.7    |
| Culvers Lake.....                          | Delaware.....   | .98           |     |     | .15 | .02  |     | .15 | .05 |     |     |     | .31 |     |      | 1.05 |     | .40 | .02 | T.  |     |     |     |     |     |     |    |    |    |    |    |    | 3.02   |
| Dover.....                                 | Passaic.....    | .86           |     |     | .22 |      |     | .22 |     |     |     | .01 | .29 |     |      | .80  |     | .39 | .08 | .02 |     |     |     | T.  |     |     |    |    |    |    |    |    | 3.13   |
| Layton.....                                | Delaware.....   | 1.04          |     | .23 |     |      | .39 | .01 |     |     |     | .50 | T.  |     | 1.12 |      | .34 | T.  | .02 | .01 |     |     |     | T.  |     |     |    |    |    |    |    |    | 2.89   |
| Newton.....                                | Delaware.....   | .96           |     | .21 | .03 |      | .08 | T.  | T.  |     | .01 | .30 | T.  |     | .88  |      | .29 | .03 |     |     |     |     |     |     |     |     |    |    |    |    |    |    | 3.66   |
| Phillipsburg.....                          | do.....         | 1.09          |     | .29 |     |      | .35 |     |     |     | .15 |     |     |     | .30  |      | .41 | .01 | T.  |     |     |     |     |     |     |     |    |    |    |    |    |    | 2.79   |
| Sussex.....                                | Hudson.....     | §             |     | .23 |     |      | .15 | .05 |     |     |     | .35 | .01 | .02 |      | .92  |     | §   | §   |     |     |     |     |     | .02 |     |    |    |    |    |    |    | 3.60   |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Bergen Point.....                          | Coast.....      | 1.03          |     |     | .20 |      |     | .18 | T.  |     |     | T.  | .02 |     |      | .58  |     | .35 | T.  | .15 |     |     |     | T.  |     |     |    |    |    |    |    |    |        |
| Boonton   .....                            | Passaic.....    | .81           | .02 |     | .13 | .06  |     | .15 | .03 | T.  |     |     | .24 |     |      | .92  |     | .38 | .02 | .05 |     |     |     |     |     |     |    |    |    |    |    |    | 2.51   |
| Chatham   .....                            | do.....         |               |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     | *   |     |     |     |     |     |     |     |     |    |    |    |    |    |    | 2.81   |
| Elizabeth.....                             | Coast.....      | .98           |     | .20 |     |      | .30 | T.  |     |     |     | .11 | .06 |     | T.   | .60  |     | .40 | *   | .12 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Flemington.....                            | Raritan.....    | .58           |     | .31 |     |      | .33 |     |     |     | .04 | .41 | .03 | .99 |      | .36  | .03 | .08 |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Highwood.....                              | Hackensack..... | .92           |     | .11 |     | .12  |     | .02 |     |     |     | .23 |     | .01 | .71  |      | .26 | .07 |     | .01 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Jersey City.....                           | Coast.....      | 1.05          |     | .18 |     |      | .20 |     | T.  |     | .05 | T.  | T.  |     | .52  |      | .30 |     | .11 | T.  |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Kearny.....                                | Coast.....      | 1.00          |     | *   |     |      | .30 | T.  |     |     | .07 | T.  | T.  |     | .73  |      | .30 |     | .10 | .30 |     |     |     | T.  |     |     |    |    |    |    |    |    |        |
| Lambertville.....                          | Delaware.....   | .72           |     | .22 |     |      | .39 | .02 |     |     | .05 | .12 |     | .07 | .72  |      | .30 | .04 | .12 | .03 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Little Falls   .....                       | Passaic.....    | 1.03          | .01 |     | .20 |      | .11 | .03 | .03 |     |     | .16 |     |     | .85  |      | .26 | .02 | .06 |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Newark**.....                              | Coast.....      | .39           |     | .18 |     | .22  |     | .22 |     |     | .30 | .06 | T.  | .51 | .23  |      | .14 |     | .33 | .06 |     |     | .02 |     |     |     |    |    |    |    |    |    |        |
| New Brunswick.....                         | Raritan.....    | .97           |     | .22 |     | .27  |     | T.  |     |     | .07 | .13 |     |     | .02  | .69  |     | .22 | .01 | .10 | .04 |     |     |     |     |     |    |    |    |    |    |    |        |
| New Milford.....                           | Hackensack..... | .50           |     | .13 |     | .12  |     | .12 |     |     | .16 |     |     | .09 | .72  |      | .27 |     | .05 |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Paterson.....                              | Passaic.....    | .81           | T.  |     | .12 |      | .12 | T.  | T.  |     | T.  | .11 | T.  |     | .02  | .70  |     | .25 | T.  | .03 | T.  |     |     |     |     |     |    |    |    |    |    |    |        |
| Plainfield.....                            | Raritan.....    | .68           |     | .24 |     | .27  | T.  |     |     |     | .06 | .15 |     |     | .71  |      | .33 | .01 | .10 | .01 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Ridgefield**.....                          | Hackensack..... | .54           |     | .17 |     | .10  | .05 | .15 |     |     | *   | .15 | T.  |     | .02  | .71  |     | .28 | .02 | .09 |     |     |     | .03 |     |     |    |    |    |    |    |    |        |
| Romerville.....                            | Raritan.....    |               |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| South Orange.....                          | Rahway.....     | .54           | T.  |     | .20 |      | .29 | T.  | T.  |     | .20 | T.  | T.  |     | .06  | .65  |     | .33 | T.  | .08 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Woodcliff Lake.....                        | Hackensack..... | .20           |     | .18 |     | .10  |     | .10 |     |     | .11 |     |     |     | .53  |      | .30 |     | .10 | .05 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| New York, N. Y***                          | Coast.....      | .43           |     | .19 |     | .19  |     | T.  |     |     | .08 | T.  | T.  |     | .11  | .47  |     | .38 | T.  | .11 | T.  |     |     |     |     |     |    |    |    |    |    |    |        |
| <i>The Southern Interior.</i>              |                 |               |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Belle Plain.....                           | Tuckahoe.....   | 1.02          |     | .03 |     |      | .46 | .03 |     |     | .08 |     |     |     | .10  | T.   |     | .06 | .07 | .42 | .04 | .06 | .06 | .03 | T.  | .02 |    |    |    |    |    |    |        |
| Bridgeton.....                             | Coast.....      |               |     |     |     |      | .50 |     | T.  |     |     |     |     |     | .25  | .20  |     | .15 |     | .35 |     | .15 |     |     |     |     |    |    |    |    |    |    |        |
| Burlington.....                            | Delaware.....   | .68           |     | .13 |     |      | .41 | T.  |     |     | .45 | .25 |     | .07 | .27  |      | .10 |     | .18 | .02 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Camp Dix   .....                           | Delaware.....   | .56           |     | .08 |     |      | .48 | T.  |     |     |     | .21 |     | .06 | .26  |      | .12 | .13 | .24 | T.  |     |     |     | .01 |     |     |    |    |    |    |    |    |        |
| Layton.....                                | Maurice.....    |               |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Lammonton.....                             | Mullica.....    | .16           |     | .06 |     | .19  | .33 |     |     |     | .06 |     |     | .09 | .10  |      | .09 | .30 | .11 |     | .14 |     |     |     |     |     |    |    |    |    |    |    |        |
| Nightstown.....                            | Raritan.....    | .65           |     | .18 |     | .37  |     | .38 |     |     | .45 | .75 |     | .03 | .50  |      | .19 | .25 | .37 |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Plainfield.....                            | Delaware.....   | .51           |     | .12 |     | .38  | .02 | .05 |     |     | .36 | .09 | .08 |     | .05  | .45  |     | .22 | .04 | .20 | .05 |     |     |     |     |     |    |    |    |    |    |    |        |
| Indian Mills.....                          | Mullica.....    | .71           |     | .08 |     | .50  |     | .04 | .11 |     | .05 | .24 |     | .11 | .02  | .30  |     | .11 |     | .30 |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Lakewood.....                              | Metedeconk..... | .84           |     | .10 |     | .23  |     | .08 |     |     | T.  | .10 |     | .02 | .40  |      | .15 | .14 | .52 |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Moorestown.....                            | Delaware.....   | .68           |     | .12 |     | .43  | .01 |     | .01 | .37 | .15 |     | .15 |     | .20  |      | .04 | .04 | .11 |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Northfield.....                            | Coast.....      | 1.04          |     | T.  |     | .35  | .01 |     |     | .14 |     | .13 | .03 |     | .09  | .08  | .46 | .02 | .08 | .05 | T.  |     |     |     |     |     |    |    |    |    |    |    |        |
| Peasantsville.....                         | Coast.....      | 1.17          |     | T.  |     | .35  | T.  |     |     | .14 |     | .07 | T.  |     | .04  | .16  | .42 |     | .10 | .02 | T.  |     |     |     |     |     |    |    |    |    |    |    |        |
| Perinton***.....                           | Delaware.....   | .24           |     | .10 |     | .34  | .02 | T.  |     | .19 |     | .01 | .08 | .43 |      | .12  | .05 | .11 | T.  |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Rockertown.....                            | Coast.....      | 1.27          |     | .03 |     | .31  |     |     |     | .08 |     | .06 | .08 |     | .11  | .20  | .38 |     | .18 |     | .10 |     |     |     |     |     |    |    |    |    |    |    |        |
| Shiloh.....                                | Maurice.....    |               |     |     |     | 1.04 | .02 |     |     | .05 |     | .43 | .32 |     | .05  | .43  | .32 |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Philadelphia, Pa.....                      | Delaware.....   | .18           |     | .06 |     | .38  | .01 | .03 |     | .42 |     | .01 | .10 | .14 |      | .04  | .05 | .10 |     | T.  |     |     |     |     |     |     |    |    |    |    |    |    |        |
| <i>The Sea Coast.</i>                      |                 |               |     |     |     |      |     |     |     |     |     |     |     |     |      |      |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Shirley Park.....                          | Coast.....      | 1.00          |     | .20 |     |      | .11 |     | .10 |     | .12 |     |     | .03 | .48  |      | .20 | .03 | .37 |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Atlantic City***.....                      | do.....         | .51           |     | .02 |     | .32  | T.  |     |     | .03 |     | .11 | .01 |     | .09  | .10  | .44 |     | .12 |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Bay May City.....                          | do.....         | .92           |     | .01 |     | .41  | .01 |     |     | .06 |     | .19 | .05 |     | T.   | .04  | .49 | T.  |     | .05 | .16 |     | .02 |     |     |     |    |    |    |    |    |    |        |
| Long Branch**.....                         | do.....         | .57           |     | .20 |     | .08  | T.  | .01 |     | .03 |     | .02 | .04 | .70 |      | .17  |     | .10 | T.  |     |     |     |     |     |     |     |    |    |    |    |    |    |        |
| Long Branch**.....                         | do.....         | .56           |     | .17 |     | .16  | T.  | T.  |     | .30 |     | .03 | .09 | .49 |      | .14  | T.  | .14 | T.  |     |     |     |     |     |     |     |    |    |    |    |    |    |        |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine                       |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |                                     |
| Atlantic City.....    | 30.09         | 30.44    | 24    | 29.33   | 11    | 18               | 56              | s.         | 11    | 74                                         | 72                                         | 64                                  |
| Cape May City.....    | 30.13         | 30.47    | 24    | 29.38   | 11    | 10               | 41              | sw.        | 11    | 72                                         | 76                                         | 69                                  |
| Long Branch.....      | 30.07         | 30.42    | 24    | 29.29   | 11    | 10               | 46              | w.         | 20    | 76                                         | 70                                         | 61                                  |
| Newark.....           | 30.05         | 30.44    | 6     | 29.28   | 11    | 17               | 72              | nw         | 20    | 66*                                        | 63†                                        | 61                                  |
| New York, N. Y.....   | 30.08         | 30.48    | 24    | 29.24   | 11    | 10               | 36              | sw.        | 11    | 68                                         | 55                                         | 72                                  |
| Philadelphia, Pa..... | 30.05         | 30.44    | 6     | 29.28   | 11    | 10               | 36              | sw.        | 11    | 62                                         | 50                                         | 59                                  |
| Ridgefield.....       | 30.05         | 30.44    | 24    | 29.24   | 11    | 16               | 56              | sw.        | 11    | 71                                         | 63                                         | 66                                  |
| Andy Hook.....        | 30.05         | 30.44    | 24    | 29.24   | 11    | 16               | 56              | sw.        | 11    | 71                                         | 63                                         | 66                                  |
| Perinton.....         | 30.06         | 30.45    | 24    | 29.22   | 11    | 13               | 52              | w.         | 20    | 76                                         | 71                                         | 68                                  |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for April, 1922.

| Stations.                                   | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | Mean. |
|---------------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|
| <i>The Highlands and Kittatinny Valley.</i> |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |
| Belvidere.....                              | Maximum | 43 | 47 | 56 | 47 | 54 | 52 | 72 | 81 | 85 | 83 | 67 | 72 | 65 | 58 | 68 | 57 | 57 | 57 | 54 | 51 | 56 | 54 | 72 | 77 | 68 | 59 | 69 | 69 | 69 | 62.7° |       |
|                                             | Minimum | 32 | 34 | 29 | 37 | 35 | 26 | 38 | 46 | 51 | 51 | 50 | 48 | 42 | 45 | 46 | 38 | 46 | 55 | 50 | 38 | 28 | 27 | 30 | 28 | 29 | 39 | 46 | 32 | 31 | 40    | 38.9  |
| Charlotteburg.....                          | Maximum | 38 | 40 | 53 | 41 | 54 | 60 | 45 | 73 | 72 | 84 | 83 | 56 | 65 | 65 | 52 | 65 | 70 | 69 | 48 | 49 | 49 | 52 | 57 | 65 | 73 | 55 | 53 | 65 | 67 | 59.2° |       |
|                                             | Minimum | 30 | 30 | 28 | 32 | 33 | 20 | 36 | 45 | 47 | 48 | 46 | 47 | 36 | 41 | 40 | 36 | 44 | 46 | 37 | 34 | 25 | 24 | 21 | 29 | 23 | 46 | 42 | 31 | 31 | 37    | 35.5  |
| Dover.....                                  | Maximum | 40 | 45 | 56 | 49 | 54 | 61 | 53 | 78 | 76 | 82 | 82 | 58 | 69 | 68 | 55 | 67 | 58 | 70 | 50 | 51 | 52 | 55 | 53 | 61 | 67 | 76 | 57 | 69 | 67 | 61    | 61.0  |
|                                             | Minimum | 32 | 31 | 29 | 35 | 34 | 26 | 39 | 50 | 51 | 54 | 54 | 48 | 42 | 44 | 42 | 36 | 42 | 48 | 37 | 36 | 27 | 25 | 26 | 31 | 29 | 43 | 36 | 33 | 34 | 41    | 37.8  |
| Layton.....                                 | Maximum | 41 | 46 | 56 | 43 | 58 | 62 | 49 | 76 | 78 | 86 | 81 | 72 | 76 | 67 | 56 | 66 | 57 | 69 | 60 | 50 | 50 | 55 | 51 | 62 | 68 | 74 | 61 | 57 | 70 | 65    | 62.1  |
|                                             | Minimum | 29 | 33 | 28 | 32 | 36 | 24 | 39 | 46 | 48 | 47 | 50 | 42 | 38 | 40 | 45 | 31 | 36 | 47 | 38 | 37 | 26 | 18 | 24 | 28 | 25 | 36 | 31 | 25 | 34 | 34    | 34.9  |
| Newton.....                                 | Maximum | 40 | 42 | 53 | 47 | 54 | 59 | 51 | 72 | 76 | 84 | 83 | 71 | 65 | 64 | 60 | 63 | 59 | 66 | 54 | 49 | 49 | 49 | 49 | 58 | 65 | 67 | 63 | 66 | 64 | 64    | 60.1  |
|                                             | Minimum | 29 | 32 | 29 | 32 | 36 | 31 | 38 | 46 | 52 | 65 | 65 | 61 | 75 | 66 | 61 | 66 | 59 | 69 | 49 | 52 | 51 | 54 | 52 | 62 | 68 | 76 | 59 | 58 | 68 | 68    | 61.3  |
| Phillipsburg.....                           | Maximum | 37 | 44 | 54 | 48 | 53 | 59 | 51 | 72 | 81 | 83 | 82 | 61 | 75 | 66 | 61 | 66 | 59 | 69 | 49 | 52 | 51 | 54 | 52 | 62 | 68 | 76 | 59 | 58 | 68 | 68    | 61.3  |
|                                             | Minimum | 35 | 35 | 31 | 36 | 34 | 29 | 40 | 50 | 54 | 52 | 56 | 47 | 45 | 46 | 45 | 38 | 45 | 47 | 39 | 38 | 32 | 28 | 33 | 31 | 33 | 43 | 42 | 37 | 35 | 40    | 39.9  |
| Sussex.....                                 | Maximum | 39 | 43 | 56 | 50 | 58 | 64 | 55 | 77 | 78 | 88 | 83 | 74 | 67 | 67 | 61 | 67 | 66 | 66 | 66 | 66 | 58 | 55 | 52 | 60 | 69 | 76 | 67 | 58 | 71 | 67    | 63.9° |
|                                             | Minimum | 32 | 33 | 28 | 33 | 36 | 25 | 39 | 47 | 50 | 67 | 51 | 47 | 45 | 41 | 45 | 35 | 35 | 35 | 35 | 35 | 28 | 22 | 25 | 27 | 27 | 39 | 43 | 34 | 30 | 39    | 37.1° |
| <i>The Red Sandstone Plain.</i>             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |
| Bergen Point.....                           | Maximum | 43 | 43 | 55 | 47 | 55 | 59 | 58 | 69 | 67 | 79 | 86 | 66 | 59 | 66 | 56 | 64 | 61 | 71 | 57 | 51 | 51 | 50 | 57 | 67 | 62 | 65 | 63 | 67 | 67 | 59.9° |       |
|                                             | Minimum | 32 | 33 | 33 | 39 | 36 | 33 | 40 | 53 | 53 | 81 | 83 | 57 | 67 | 62 | 52 | 63 | 67 | 71 | 49 | 51 | 51 | 53 | 51 | 60 | 67 | 74 | 55 | 55 | 69 | 66    | 60.4  |
| Boonton§§.....                              | Maximum | 42 | 47 | 56 | 44 | 57 | 59 | 59 | 71 | 72 | 81 | 83 | 57 | 67 | 62 | 52 | 63 | 67 | 71 | 49 | 51 | 51 | 53 | 51 | 60 | 67 | 74 | 55 | 55 | 69 | 66    | 36.5  |
|                                             | Minimum | 31 | 30 | 30 | 36 | 33 | 24 | 38 | 39 | 44 | 44 | 53 | 53 | 39 | 44 | 43 | 38 | 37 | 44 | 36 | 37 | 29 | 22 | 26 | 30 | 29 | 41 | 46 | 35 | 29 | 40    | 63.7  |
| Elizabeth.....                              | Maximum | 44 | 48 | 59 | 52 | 58 | 63 | 51 | 76 | 70 | 87 | 88 | 68 | 71 | 66 | 61 | 68 | 61 | 73 | 58 | 54 | 54 | 52 | 54 | 61 | 70 | 78 | 70 | 61 | 69 | 67    | 40.5  |
|                                             | Minimum | 35 | 34 | 29 | 38 | 36 | 28 | 40 | 51 | 56 | 48 | 58 | 53 | 45 | 47 | 43 | 38 | 42 | 58 | 40 | 39 | 31 | 31 | 32 | 46 | 48 | 34 | 34 | 35 | 40 | 40    | 64.2  |
| Flemington.....                             | Maximum | 43 | 48 | 55 | 55 | 54 | 63 | 57 | 76 | 78 | 87 | 82 | 71 | 73 | 68 | 61 | 68 | 62 | 71 | 58 | 55 | 53 | 56 | 55 | 63 | 69 | 78 | 70 | 59 | 68 | 70    | 40.9  |
|                                             | Minimum | 36 | 35 | 31 | 40 | 34 | 28 | 40 | 48 | 57 | 55 | 58 | 53 | 43 | 50 | 47 | 37 | 43 | 58 | 37 | 39 | 31 | 28 | 31 | 33 | 44 | 49 | 36 | 32 | 42 | 40    | 62.6  |
| Highwood.....                               | Maximum | 41 | 48 | 57 | 47 | 59 | 50 | 50 | 75 | 68 | 85 | 85 | 68 | 69 | 65 | 58 | 67 | 59 | 73 | 55 | 51 | 54 | 51 | 51 | 58 | 68 | 77 | 72 | 59 | 70 | 64    | 38.0  |
|                                             | Minimum | 35 | 36 | 30 | 38 | 37 | 27 | 40 | 48 | 45 | 55 | 50 | 38 | 44 | 44 | 36 | 42 | 55 | 38 | 39 | 30 | 24 | 27 | 33 | 29 | 40 | 50 | 31 | 29 | 37 | 40    | 62.1  |
| Jersey City.....                            | Maximum | 43 | 50 | 58 | 49 | 58 | 60 | 50 | 76 | 71 | 78 | 84 | 65 | 72 | 67 | 61 | 66 | 58 | 65 | 57 | 55 | 54 | 53 | 49 | 63 | 69 | 74 | 68 | 62 | 64 | 65    | 42.4  |
|                                             | Minimum | 35 | 35 | 33 | 40 | 39 | 36 | 41 | 49 | 56 | 52 | 48 | 46 | 47 | 47 | 45 | 42 | 46 | 55 | 45 | 40 | 34 | 33 | 38 | 35 | 42 | 49 | 43 | 39 | 38 | 45    | 63.9  |
| Kearny.....                                 | Maximum | 43 | 49 | 61 | 47 | 62 | 63 | 55 | 75 | 76 | 87 | 87 | 62 | 70 | 64 | 60 | 70 | 62 | 74 | 55 | 53 | 52 | 60 | 54 | 65 | 68 | 78 | 64 | 61 | 70 | 70    | 41.3  |
|                                             | Minimum | 35 | 35 | 32 | 41 | 39 | 32 | 40 | 44 | 56 | 54 | 61 | 46 | 46 | 46 | 45 | 43 | 45 | 52 | 40 | 36 | 31 | 31 | 34 | 34 | 39 | 42 | 39 | 37 | 39 | 45    | 60.7  |
| Lambertville.....                           | Maximum | 42 | 44 | 52 | 49 | 51 | 61 | 52 | 73 | 81 | 83 | 81 | 67 | 70 | 63 | 59 | 66 | 61 | 70 | 52 | 51 | 47 | 52 | 50 | 59 | 65 | 72 | 61 | 58 | 65 | 65    | 40.7  |
|                                             | Minimum | 34 | 35 | 30 | 39 | 34 | 31 | 39 | 51 | 57 | 63 | 61 | 48 | 43 | 50 | 46 | 38 | 43 | 51 | 39 | 37 | 31 | 28 | 31 | 31 | 36 | 42 | 42 | 36 | 32 | 42    | 39.4  |
| Little Falls§§.....                         | Maximum | 42 | 44 | 57 | 46 | 57 | 63 | 62 | 75 | 75 | 86 | 86 | 58 | 69 | 66 | 58 | 66 | 70 | 73 | 49 | 52 | 55 | 51 | 62 | 69 | 77 | 57 | 58 | 70 | 68 | 68    | 62.4  |
|                                             | Minimum | 34 | 37 | 31 | 38 | 37 | 28 | 40 | 41 | 52 | 45 | 55 | 54 | 42 | 44 | 44 | 40 | 42 | 48 | 39 | 38 | 31 | 27 | 28 | 32 | 32 | 43 | 48 | 37 | 34 | 42    | 39.4  |
| Newark.....                                 | Maximum | 41 | 44 | 56 | 42 | 55 | 60 | 52 | 72 | 68 | 84 | 84 | 60 | 68 | 62 | 57 | 65 | 61 | 71 | 48 | 51 | 51 | 51 | 52 | 60 | 67 | 76 | 61 | 56 | 67 | 68    | 60.8  |
|                                             | Minimum | 35 | 34 | 39 | 39 | 39 | 35 | 40 | 52 | 53 | 52 | 58 | 46 | 45 | 45 | 44 | 43 | 44 | 48 | 39 | 38 | 32 | 32 | 36 | 36 | 43 | 53 | 40 | 39 | 39 | 47    | 42.2  |
| New Brunswick.....                          | Maximum | 44 | 46 | 54 | 50 | 55 | 60 | 54 | 75 | 72 | 84 | 85 | 68 | 70 | 66 | 61 | 65 | 65 | 72 | 61 | 53 | 50 | 50 | 51 | 59 | 66 | 74 | 70 | 57 | 66 | 65    | 62.3  |
|                                             | Minimum | 35 | 35 | 29 | 39 | 35 | 28 | 52 | 54 | 49 | 57 | 50 | 46 | 47 | 44 | 38 | 43 | 43 | 59 | 37 | 38 | 30 | 28 | 28 | 32 | 35 | 43 | 49 | 37 | 32 | 42    | 40.0  |
| Paterson.....                               | Maximum | 42 | 48 | 59 | 51 | 59 | 65 | 53 | 77 | 75 | 89 | 88 | 68 | 71 | 70 | 60 | 69 | 59 | 75 | 60 | 54 | 56 | 55 | 54 | 62 | 70 | 71 | 62 | 72 | 69 | 64    | 61.9  |
|                                             | Minimum | 35 | 36 | 32 | 38 | 39 | 33 | 41 | 48 | 55 | 49 | 58 | 51 | 41 | 45 | 44 | 41 | 48 | 54 | 40 | 39 | 31 | 29 | 32 | 35 | 37 | 47 | 48 | 36 | 35 | 44    | 37.9  |
| Plainfield.....                             | Maximum | 42 | 48 | 59 | 48 | 55 | 63 | 51 | 75 | 72 | 87 | 85 | 70 | 70 | 65 | 58 | 65 | 59 | 78 | 52 | 53 | 52 | 53 | 54 | 66 | 75 | 60 | 58 | 65 | 67 | 67    | 61.9  |
|                                             | Minimum | 34 | 34 | 31 | 37 | 33 | 26 | 38 | 48 | 52 | 46 | 54 | 49 | 41 | 44 | 43 | 34 | 42 | 50 | 35 | 37 | 30 | 25 | 26 | 32 | 30 | 43 | 41 | 34 | 29 | 40    | 37.9  |
| Ridgefield.....                             | Maximum | 40 | 43 | 56 | 43 | 55 | 60 | 52 | 74 | 65 | 86 | 85 | 59 | 69 | 63 | 57 | 66 | 62 | 72 | 48 | 52 | 52 | 50 | 52 | 60 | 67 | 76 | 57 | 58 | 64 | 60    | 60.5  |
|                                             | Minimum | 35 | 33 | 30 | 38 | 37 | 30 | 40 | 52 | 52 | 48 | 59 | 54 | 42 | 43 | 44 | 39 | 42 | 45 | 39 | 37 | 30 | 28 | 31 | 32 | 34 | 44 | 38 | 34 | 33 | 42    | 39.5  |
| Somerville.....                             | Maximum | 42 | 44 | 55 | 44 | 55 | 59 | 52 | 74 | 70 | 83 | 83 | 59 | 68 | 65 | 57 | 65 | 60 | 71 | 48 | 52 | 50 | 50 | 51 | 58 | 66 | 73 | 60 | 53 | 66 | 65    | 59.9  |
|                                             | Minimum | 35 | 33 | 32 | 37 | 36 | 32 | 41 | 51 | 57 | 52 | 59 | 46 | 45 | 47 | 45 | 44 | 44 | 48 | 39 | 38 | 30 | 29 | 32 | 34 | 39 | 49 | 39 | 36 | 34 | 45    | 40.9  |
| South Orange.....                           | Maximum | 42 | 43 | 55 | 46 | 55 | 58 | 54 | 73 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist,

VOL. XXVII. TRENTON, N. J., MAY, 1922. No. 5.

### GENERAL SUMMARY.

The weather during May, 1922, was remarkably pleasant in New Jersey. There was an excess over the normal warmth on each day except the 1st, 17th, 27th and 28th; there was an excess of sunshine, but a normal amount of rain, although it occurred on 3 fewer days than normal. Rain during May is a widely variable quantity, and has varied over the State years past from 15.6 inches to under one-tenth of an inch. Temperatures are less erratic, and State means have ranged but slightly over 11°. The first day of the month was the coldest, and temperatures rose with fair regularity to the close. Rain was not well distributed; nearly all of it occurring by the 18th, there being none to amount to anything thereafter. This long, dry period developed into a threatened drought, and plant life was not in very favorable condition at the close of the month. It was, however, one of the best months for out-of-door work that is likely to occur in the Spring. The air was hazy on about 18 days, and many forest fires occurred. There was an unusual absence of severe convectional storms.

Storm warnings were displayed along the coast on the 18th and 19th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 63.0°, which was 2.6° above the normal. The temperature was 90° at Phillipsburg on the 26th and Burlington on the 30th, and the lowest, 23°, at Charlotteburg on the 1st. The highest monthly mean temperature was 66.1° at Bridgeton and Vineland, and the lowest, 59.0° at Charlotteburg. The greatest daily range of temperature was 47° at Charlotteburg on the 1st.

The temperature departure from the normal for the year 1922 to date, by sections, is: The Highlands, +1.7°; Red Sandstone Plain, +1.4°; Southern Interior, +1.9°; Sea Coast, +1.9°.

### PRECIPITATION.

The average total precipitation of the State, as deduced from observations of 45 stations, was 3.84 inches, which was 0.04 inch above the normal. The greatest monthly amount was 7.55 inches at Newark, and the least 1.16 inches at Northfield. The greatest amount accumulated in any 24 consecutive hours was 3.30 inches at Boonton on the 19th. The average number of days on which .01 inch or more of rain fell was 8, which was 3 less than the normal.

The accumulated precipitation departure from the normal for the year 1922 to date, by sections, is: The Highlands, -1.73 inches; Red Sandstone Plain, -1.23 inches; Southern Interior, -2.53 inches; Sea Coast, -2.82 inches.

### WIND.

The prevailing wind direction was from the south, with an hourly velocity of 12 miles, which was 1 mile above the normal. The highest velocity, sustained for 5 consecutive minutes, was 2 miles per hour from the east at Atlantic City on the 27th. High winds were noted also on the 11th and 19th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, which was 6 more than the normal; partly cloudy, 6, or 4 less than the normal; cloudy 7, or 2 less than the normal. The per cent. of possible sunshine was 71, which was 11 per cent. above the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.01 inches, which was 0.02 inch above the normal. The highest reading was 30.54 inches at Cape May City on the 1st, and the lowest, 29.43 inches at Trenton on the 19th.

The mean stage of the Delaware River at Phillipsburg was 3.6 feet, and the highest, 6.0 feet on the 20th. At Trenton the mean daily stage was 2.3 feet, which was 0.3 feet below the normal; the highest stage was 3.8 feet on the 21st.

Killing frost was noted at Charlotteburg, Layton, Plainfield, Ridgefield, and Tuckerton on the 1st; heavy frost at Dover, New Brunswick, Belle Plain, and Pleasantville on the 1st; and light frost at Camp Dix, Flemington, Northfield, and Trenton on the 1st, at Flemington on the 2d, at Camp Dix, Layton, and New Lisbon on the 13th, and at New Lisbon on the 28th. Thunderstorms occurred in some portion of the State on the 11th, 15th, 18th, 19th, 22d, 26th, and 27th. Solar halos were observed on the 1st, 2d, 3d, 9th, 10th, 13th, 14th, 18th, 25th, and 26th, and lunar halos on the 8th and 9th.

### ERRATA.

March 1922: Pages 10 and 11: Highwood, total precipitation should read 4.96 inches instead of 3.96 inches; departure, +0.78 instead of -0.22; page 11, amount on 20th should read 1.09 instead of 0.09.

### COMPARATIVE DATA FOR MAY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 57.3         | 90       | 29      | 2.74           | 5.20      | 1.18   | .....        | .....          | .....   | .....                  |
| 1886..... | 58.8         | 87       | 36      | 6.07           | 8.46      | 4.15   | .....        | .....          | .....   | .....                  |
| 1887..... | 63.3         | 94       | 35      | 1.37           | 3.82      | 0.08   | .....        | .....          | .....   | .....                  |
| 1888..... | 58.6         | 90       | 26      | 4.92           | 6.48      | 3.00   | .....        | .....          | .....   | .....                  |
| 1889..... | 62.3         | 94       | 32      | 4.09           | 6.60      | 2.43   | .....        | .....          | .....   | .....                  |
| 1890..... | 60.7         | 87       | 33      | 4.24           | 7.17      | 2.60   | .....        | .....          | .....   | .....                  |
| 1891..... | 59.5         | 93       | 28      | 2.97           | 5.39      | 1.78   | 9            | 11             | 11      | 9                      |
| 1892..... | 60.1         | 90       | 30      | 5.04           | 6.52      | 3.26   | 8            | 13             | 10      | 13                     |
| 1893..... | 59.4         | 95       | 29      | 4.07           | 6.38      | 2.55   | 13           | 8              | 10      | 13                     |
| 1894..... | 61.4         | 93       | 30      | 7.72           | 15.61     | 3.57   | 11           | 9              | 11      | 13                     |
| 1895..... | 60.9         | 102      | 28      | 2.85           | 3.95      | 1.66   | 12           | 12             | 7       | 8                      |
| 1896..... | 65.3         | 98       | 29      | 3.21           | 4.54      | 1.62   | 10           | 12             | 9       | 10                     |
| 1897..... | 60.6         | 87       | 29      | 5.68           | 9.11      | 1.71   | 11           | 12             | 8       | 12                     |
| 1898..... | 58.5         | 93       | 29      | 7.00           | 9.26      | 3.92   | 8            | 8              | 15      | 18                     |
| 1899..... | 61.1         | 94       | 29      | 1.92           | 3.15      | 1.15   | 12           | 12             | 7       | 9                      |
| 1900..... | 60.9         | 98       | 26      | 4.71           | 7.33      | 2.53   | 13           | 7              | 11      | 10                     |
| 1901..... | 58.6         | 90       | 29      | 5.60           | 8.13      | 3.10   | 9            | 9              | 13      | 16                     |
| 1902..... | 60.3         | 95       | 29      | 2.04           | 4.63      | 1.11   | 15           | 11             | 5       | 7                      |
| 1903..... | 62.7         | 98       | 21      | 0.59           | 1.82      | 0.08   | 16           | 10             | 5       | 4                      |
| 1904..... | 62.8         | 97       | 31      | 2.60           | 6.69      | 1.01   | 17           | 9              | 5       | 8                      |
| 1905..... | 61.4         | 89       | 22      | 1.71           | 3.94      | 0.42   | 12           | 11             | 8       | 8                      |
| 1906..... | 61.0         | 94       | 24      | 4.21           | 6.28      | 2.37   | 16           | 8              | 7       | 10                     |
| 1907..... | 55.4         | 91       | 22      | 5.05           | 8.09      | 2.51   | 12           | 9              | 10      | 12                     |
| 1908..... | 61.6         | 95       | 29      | 7.10           | 9.99      | 4.39   | 9            | 10             | 12      | 13                     |
| 1909..... | 60.0         | 91       | 27      | 2.30           | 4.84      | 0.79   | 10           | 11             | 10      | 9                      |
| 1910..... | 60.0         | 94       | 27      | 2.54           | 4.25      | 1.48   | 10           | 10             | 11      | 12                     |
| 1911..... | 64.5         | 99       | 22      | 1.37           | 3.84      | 0.31   | 14           | 11             | 6       | 7                      |
| 1912..... | 62.0         | 92       | 31      | 4.09           | 6.47      | 2.79   | 11           | 11             | 9       | 11                     |
| 1913..... | 60.3         | 94       | 25      | 3.45           | 4.86      | 2.53   | 15           | 7              | 9       | 9                      |
| 1914..... | 63.1         | 98       | 30      | 2.93           | 5.09      | 0.95   | 14           | 9              | 7       | 10                     |
| 1915..... | 58.1         | 88       | 30      | 3.82           | 6.15      | 2.00   | 13           | 7              | 11      | 13                     |
| 1916..... | 61.1         | 90       | 32      | 3.48           | 5.27      | 2.14   | 12           | 11             | 8       | 12                     |
| 1917..... | 54.0         | 90       | 22      | 3.83           | 6.83      | 2.08   | 10           | 10             | 11      | 11                     |
| 1918..... | 64.6         | 93       | 31      | 4.94           | 7.59      | 2.74   | 14           | 10             | 7       | 12                     |
| 1919..... | 60.9         | 95       | 31      | 4.98           | 7.68      | 3.06   | 14           | 6              | 11      | 12                     |
| 1920..... | 57.4         | 89       | 25      | 3.00           | 5.23      | 1.61   | 15           | 8              | 8       | 10                     |
| 1921..... | 60.2         | 96       | 30      | 4.17           | 6.44      | 2.60   | 14           | 7              | 10      | 10                     |
| 1922..... | 63.0         | 90       | 23      | 3.84           | 7.55      | 1.16   | 18           | 6              | 7       | 8                      |



## Climatological Data for May, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                 |        |             | Prevailing direction of wind. | Observers. |                                                                                                                          |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|---------------------------------|--------|-------------|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation, 0.1 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                                                                                                                  |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 63.0                          | +2.3                       | 87              | 26    | 31      | 1     | 40                        | 3.27   | -0.56                      | 0.90                  | 0                          | 8                               | 21     | 4           | 6                             | .....      | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 59.0                          | +1.5                       | 82              | 10†   | 23      | 1     | 47                        | 7.10   | +2.90                      | .....                 | 0                          | 7                               | 16     | 9           | 6                             | .....      |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....           | ..... | 34      | 1     | .....                     | 4.49   | +0.86                      | 1.26                  | 0                          | 12                              | 22     | 3           | 6                             | w.         |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600              | 38                       | 61.6                          | +3.0                       | 85              | 10†   | 29      | 1     | 43                        | 4.11   | +0.17                      | 1.78                  | 0                          | 8                               | 10     | 14          | 7                             | se.        |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 59.8                          | +1.8                       | 85              | 10    | 25      | 1     | 45                        | 4.23   | +0.98                      | 1.40                  | 0                          | 11                              | 20     | 2           | 9                             | s.         | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 62.2                          | +2.7                       | 82              | 29    | 33      | 1     | 37                        | 3.48   | -0.45                      | 1.13                  | 0                          | 8                               | 18     | 7           | 6                             | sw.        |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 64.6 <sup>b</sup>             | +3.3                       | 90 <sup>a</sup> | 26    | 34      | 1     | 43                        | 4.86   | +1.00                      | 1.29                  | 0                          | 8                               | 22     | 1           | 8                             | .....      |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 61.0 <sup>b</sup>             | +1.1                       | 87 <sup>a</sup> | 24    | 35†     | 12    | 42                        | 3.89   | +0.17                      | 1.10                  | 0                          | 8                               | .....  | .....       | .....                         | sw.        |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 61.6                          | +2.2                       | 90              | 26    | 23      | 1     | 47                        | 4.43   | +0.63                      | 1.78                  | 0                          | 9                               | 18     | 6           | 7                             | sw.        |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                                                                                                                          |
| Bergen Point†.....                          | Hudson.....     | 37               | 25                       | 63.8                          | +3.5                       | 84              | 27    | 44      | 1     | 31                        | 3.94   | -0.02                      | .....                 | 0                          | 5                               | .....  | .....       | .....                         | se.        | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400              | 32                       | 60.6 <sup>b</sup>             | +1.4                       | 83              | 10†   | 29      | 1     | 39                        | 6.38   | +2.32                      | 3.30                  | 0                          | 8                               | 22     | 0           | 9                             | ne.        |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | 6.66   | +3.16                      | 2.69                  | 0                          | 9                               | 24     | 5           | 2                             | .....      |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 64.3                          | +2.3                       | 88              | 26    | 36      | 1     | 38                        | 5.24   | +1.42                      | 3.06                  | 0                          | 7                               | 16     | 8           | 7                             | sw.        |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 63.9                          | +2.6                       | 88              | 10    | 33      | 1     | 38                        | 3.83   | -0.19                      | 1.32                  | 0                          | 7                               | 23     | 4           | 4                             | w.         | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Chandler, M. D.                                     |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 62.4                          | +3.1                       | 86              | 29    | 31      | 1     | 39                        | 4.66   | +0.83                      | 2.64                  | 0                          | 7                               | 15     | 9           | 7                             | e.         |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 63.9                          | +2.6                       | 86              | 10    | 42      | 1     | 30                        | 3.93   | +0.35                      | 1.70                  | 0                          | 8                               | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Kearny.....                                 | Hudson.....     | 100              | 3                        | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                           | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 62.6                          | +1.0                       | 84              | 10†   | 38      | 1     | 36                        | 3.61   | -0.41                      | 0.89                  | 0                          | 8                               | 19     | 7           | 5                             | w.         | Wm. J. Lauderdale.<br>Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.                          |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 68.1                          | +3.4                       | 87              | 10    | 32      | 1     | 39                        | 5.38   | +1.59                      | 2.40                  | 0                          | 8                               | 19     | 8           | 4                             | e.         |                                                                                                                          |
| Newark.....                                 | Essex.....      | 159              | 80                       | 64.8                          | +3.7                       | 87              | 26    | 46      | 4     | 29                        | 7.55   | +3.58                      | 2.36                  | 0                          | 9                               | 16     | 10          | 5                             | sw.        |                                                                                                                          |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 62.9                          | +2.5                       | 83              | 10†   | 36      | 1     | 37                        | 4.41   | +0.52                      | 2.19                  | 0                          | 8                               | 21     | 5           | 5                             | w.         |                                                                                                                          |
| New Milford†.....                           | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | 5.14   | .....                      | 2.15                  | 0                          | 7                               | .....  | .....       | .....                         | .....      | Hackensack Water Co.<br>Marion T. Probert.<br>E. D. Pearson.<br>George P. Kirsten.                                       |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 65.4                          | +3.9                       | 89              | 29†   | 40      | 1     | 38                        | 4.13   | -0.31                      | 2.10                  | 0                          | 6                               | 6      | 10          | 15                            | se.        |                                                                                                                          |
| Plainfield.....                             | Union.....      | 110              | 34                       | 61.2                          | +1.0                       | 87              | 10    | 31      | 1     | 39                        | 5.01   | +1.09                      | 2.10                  | 0                          | 8                               | 16     | 10          | 5                             | .....      |                                                                                                                          |
| Ridgefield†.....                            | Bergen.....     | 70               | 7                        | 62.3                          | .....                      | 85              | 10†   | 34      | 1     | 35                        | 4.24   | .....                      | 2.55                  | 0                          | 9                               | 17     | 10          | 4                             | s.         |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 74               | 39                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                           | .....  | .....       | .....                         | .....      | Wm. H. Meeder.<br>Hackensack Water Co.<br>U. S. Weather Bureau.                                                          |
| South Orange.....                           | Essex.....      | 200              | 52                       | 62.5                          | +2.5                       | 83              | 26†   | 37      | 1     | 32                        | 5.85   | +2.33                      | 2.25                  | 0                          | 8                               | 20     | 7           | 4                             | w.         |                                                                                                                          |
| Woodcliff Lake†.....                        | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | 3.97   | .....                      | 1.37                  | 0                          | 6                               | .....  | .....       | .....                         | .....      |                                                                                                                          |
| New York, N. Y.....                         |                 | 365              | 52                       | 63.6                          | +4.3                       | 83              | 26    | 44      | 1     | 26                        | 3.24   | +0.06                      | 2.14                  | 0                          | 9                               | 12     | 13          | 6                             | sw.        |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 63.1                          | +2.6                       | 89              | 29†   | 29      | 1     | 39                        | 4.94   | +1.16                      | 3.30                  | 0                          | 8                               | 18     | 7           | 6                             | w.         |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 62.6                          | +1.5                       | 86              | 21†   | 29      | 1     | 42                        | 2.04   | -1.78                      | 0.69                  | 0                          | 11                              | 17     | 7           | 7                             | se.        | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 66.1                          | +2.1                       | 87              | 21†   | 35      | 1     | 37                        | 2.67   | -1.17                      | 0.78                  | 0                          | 7                               | 24     | 2           | 5                             | w.         |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 66.0                          | +4.1                       | 90              | 30    | 35      | 1     | 39                        | 2.78   | -1.50                      | 1.37                  | 0                          | 7                               | 23     | 5           | 3                             | nw.        |                                                                                                                          |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 63.8                          | .....                      | 84              | 26†   | 34      | 1     | 38                        | 4.03   | .....                      | 1.98                  | 0                          | 11                              | 15     | 3           | 13                            | s.         |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130              | 29                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                           | .....  | .....       | .....                         | .....      | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.                                                         |
| Hammononton.....                            | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | 2.39   | -1.89                      | 0.94                  | 0                          | 8                               | 19     | 6           | 6                             | e.         |                                                                                                                          |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 62.4                          | +1.1                       | 85              | 25†   | 33      | 1     | 39                        | 3.35   | -0.60                      | 1.85                  | 0                          | 6                               | 25     | 1           | 5                             | nw.        |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 63.5                          | +1.6                       | 89              | 30    | 29      | 1     | 44                        | 2.56   | -1.06                      | 1.22                  | 0                          | 8                               | 22     | 2           | 7                             | sw.        |                                                                                                                          |
| Indian Mills†.....                          | Burlington..... | 76               | 33                       | 64.2                          | +2.1                       | 87              | 21†   | 30      | 1     | 44                        | 3.01   | -0.23                      | 1.06                  | 0                          | 6                               | 15     | 7           | 9                             | e.         | James M. Armstrong.<br>R. W. Holman.<br>Stokes Seed Farms Co.<br>William L. Flick.                                       |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 62.8                          | +2.6                       | 85              | 25†   | 31      | 1     | 39                        | 3.23   | -0.17                      | 1.13                  | 0                          | 6                               | 19     | 4           | 8                             | e.         |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75               | 59                       | 65.9 <sup>a</sup>             | +4.6                       | 87              | 11    | 35      | 1     | 43                        | 3.15   | -0.87                      | 0.95                  | 0                          | 9                               | 15     | 6           | 10                            | w.         |                                                                                                                          |
| Northfield.....                             | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | 1.16   | -2.31                      | 0.48                  | 0                          | 8                               | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Pleasantville†.....                         | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                     | 1.36   | -1.90                      | 0.67                  | 0                          | 7                               | 22     | 2           | 7                             | .....      | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 64.2                          | +3.1                       | 84              | 30    | 39      | 1     | 31                        | 3.03   | -0.49                      | 1.71                  | 0                          | 7                               | 9      | 13          | 9                             | sw.        |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 62.6                          | +2.7                       | 87              | 11†   | 33      | 1     | 40                        | 2.28   | -1.46                      | 0.81                  | 0                          | 7                               | 22     | 4           | 5                             | s.         |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 66.1 <sup>d</sup>             | +3.8                       | 87 <sup>a</sup> | 21    | 36      | 1     | 37 <sup>d</sup>           | 3.63   | 0.00                       | 1.10                  | 0                          | 8                               | .....  | .....       | .....                         | sw.        |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117              | 52                       | 66.4                          | +4.2                       | 85              | 11    | 47      | 1     | 28                        | 2.47   | -0.73                      | 0.87                  | 0                          | 10                              | 11     | 11          | 9                             | sw.        |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 64.2                          | +2.7                       | 90              | 30    | 29      | 1     | 44                        | 2.71   | -1.10                      | 1.98                  | 0                          | 8                               | 19     | 5           | 7                             | sw.        |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |                 |       |         |       |                           |        |                            |                       |                            |                                 |        |             |                               |            |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 61.0                          | +2.2                       | 83              | 11    | 40      | 1     | 30                        | 3.54   | -0.04                      | 1.46                  | 0                          | 9                               | 13     | 14          | 4                             | ne.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 61.2                          | +3.1                       | 86              | 11    | 41      | 1     | 30                        | 1.45   | -1.55                      | 0.70                  | 0                          | 8                               | 16     | 8           | 7                             | s.         |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17               | 38                       | 62.6                          | +4.0                       | 83              | 11    | 42      | 1     | 23                        | 1.23   | -1.76                      | 0.45                  | 0                          | 11                              | 15     | 7           | 9                             | s.         |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 61.2                          | +3.0                       | 83              | 11    | 46      | 2†    | 32                        | 3.15   | -0.61                      | 1.01                  | 0                          | 9                               | 19     | 9           | 3                             | s.         |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 61.8                          | +3.3                       | 85              | 26    | 43      | 1     | 27                        | 3.27   | -0.43                      | 1.96                  | 0                          | 8                               | 14     | 11          | 6                             | s.         |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 61.6                          | +3.1                       | 86              | 11    | 40      | 1     | 32                        | 2.53   | -0.88                      | 1.96                  | 0                          | 9                               | 15     | 10          | 6                             | s.         |                                                                                                                          |
| For the State.....                          |                 |                  |                          | 63.0                          | +2.6                       | 90              | 26†   | 23      | 1     | 47                        | 3.84   | +0.04                      | 3.30                  | 0                          | 8                               | 18     | 6           | 7                             | s.         |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

The station at Belle Plain is

about five miles from Woodbine, and will be considered as a continuation of the Woodbine station.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliff are Weehawken.



## Daily Precipitation for May, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      | Total. |
|--------------------------------------------|-----------------|---------------|---|------|------|------|-----|-----|---|---|----|----|-----|----|-----|-----|-----|-----|--------|------|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|------|--------|
|                                            |                 | 1             | 2 | 3    | 4    | 5    | 6   | 7   | 8 | 9 | 10 | 11 | 12  | 13 | 14  | 15  | 16  | 17  | 18     | 19   | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27 | 28 | 29 | 30 | 31   |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| Belvidere.....                             | Delaware.....   |               |   |      | .67  | .90  |     | .08 |   |   |    |    |     |    | .15 | .34 |     |     | .78    | .20  | .15 |     |     |     |     |     |     |    |    |    |    |      | 3.27   |
| Charlotteburg.....                         | Passaic.....    |               |   | *    | 1.80 |      |     | .03 |   |   |    |    |     |    |     | .40 |     |     | * 4.69 |      |     |     |     |     | .18 |     |     |    |    |    |    |      | 7.10   |
| Culvers Lake.....                          | Delaware.....   |               |   | .01  | 1.09 | .87  |     | .05 |   |   |    |    |     |    |     | .02 |     | .01 | 1.26   | .74  | .18 | .01 |     |     | .03 | .22 |     |    |    |    |    |      | 4.49   |
| Dover.....                                 | Passaic.....    |               |   | *    | 1.65 |      |     | .03 |   |   |    |    |     |    |     | .17 |     |     | 1.78   | .42  |     |     |     |     | .06 |     |     |    |    |    |    |      | 4.11   |
| Layton.....                                | Delaware.....   |               |   | .03  | 1.08 | .93  |     | .11 |   |   | T. |    |     |    |     |     |     | .03 | 1.40   | .38  | .05 | .02 |     |     |     | .16 | .04 |    |    |    |    |      | 4.23   |
| Newton.....                                | Delaware.....   |               |   | T.   | .66  | .95  | .02 | T.  |   |   | T. |    |     |    |     | .14 |     |     | 1.13   | .33  | .03 |     |     |     |     | .22 |     |    |    |    |    |      | 3.48   |
| Phillipsburg.....                          | do.....         |               |   | 1.01 | 1.29 | 1.09 |     |     |   |   |    |    |     |    | T.  | .68 |     | .04 | .34    | .18  |     |     |     |     |     | .23 |     |    |    |    |    |      | 4.86   |
| Sussex.....                                | Hudson.....     |               |   |      | .47  | .83  |     | .03 |   |   |    |    |     |    |     |     |     |     | 1.10   | .72  | .17 | .05 |     |     |     | .52 |     |    |    |    |    |      | 3.89   |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| Bergen Point.....                          | Coast.....      |               |   |      |      | 2.46 |     |     |   |   |    |    |     |    |     |     |     | T.  | 1.17   | .18  |     |     |     | T.  | .13 |     |     |    |    |    |    | 3.94 |        |
| Boonton III.....                           | Passaic.....    |               |   |      | .32  | 1.72 | .03 | T.  |   |   | T. |    |     |    |     | .13 |     |     | .58    | 3.30 | .18 |     |     |     |     | .12 |     |    |    |    |    |      | 6.38   |
| Chatham II.....                            | do.....         |               |   |      | .19  | 2.31 | .07 |     |   |   |    |    |     |    |     |     | .02 | .45 | .77    | 2.69 | .14 |     |     | .02 |     | .12 |     |    |    |    |    |      | 6.66   |
| Elizabeth.....                             | Coast.....      |               |   |      | .23  | 3.06 |     | T.  |   |   | T. |    |     |    |     | .15 |     | T.  | 1.50   | .25  | T.  |     |     | .03 |     | .02 |     |    |    |    |    |      | 5.24   |
| Flemington.....                            | Raritan.....    |               |   | T.   | .76  | 1.32 |     |     |   |   | T. |    |     |    | .04 | .08 |     | T.  | 1.16   | .15  |     |     |     |     |     | .32 |     |    |    |    |    |      | 3.83   |
| Highwood.....                              | Hackensack..... |               |   |      | .40  | 2.24 | T.  |     |   |   | T. |    |     |    |     | .07 |     |     | 1.27   | .51  |     | T.  |     |     | .09 | .08 | T.  |    |    |    |    |      | 4.66   |
| Jersey City.....                           | Coast.....      |               |   | T.   | 1.20 | 1.70 |     | T.  |   |   | T. |    |     |    |     | .01 |     |     | .50    | .40  |     |     | .01 |     |     | .09 | .02 |    |    |    |    |      | 3.93   |
| Kearny.....                                | Coast.....      |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| Lambertville.....                          | Delaware.....   |               |   | .09  | .77  | .85  |     |     |   |   |    |    |     |    | .45 |     |     | T.  | .89    | .28  |     |     | .03 |     | .25 |     |     |    |    |    |    |      | 3.61   |
| Little Falls III.....                      | Passaic.....    |               |   |      | .23  | 2.40 | .02 |     |   |   |    |    |     |    |     | .07 |     |     | .45    | 1.93 | .07 |     |     |     | .21 |     |     |    |    |    |    |      | 5.38   |
| Newark**.....                              | Coast.....      |               |   | .42  | 1.26 | 2.36 |     |     |   |   | T. |    |     |    |     | .74 |     | .42 | 1.82   | .36  | .06 | T.  |     | .09 |     |     |     |    |    |    |    |      | 7.55   |
| New Brunswick.....                         | Raritan.....    |               |   |      | .56  | 2.19 |     |     |   |   | T. |    |     |    |     | .05 |     |     | 1.32   | .04  |     |     | .01 |     | .21 | .03 |     |    |    |    |    |      | 4.41   |
| New Milford.....                           | Hackensack..... |               |   |      | 1.16 | 2.15 |     |     |   |   |    |    |     |    |     | .13 |     |     | 1.26   | .26  |     |     |     |     | .16 | .02 |     |    |    |    |    |      | 5.14   |
| Paterson.....                              | Passaic.....    |               |   |      | .40  | 2.10 |     |     |   |   |    |    |     |    |     | .15 |     |     | .93    | .31  |     | T.  |     | T.  | .24 |     |     |    |    |    |    |      | 4.13   |
| Plainfield.....                            | Raritan.....    |               |   | T.   | .86  | 1.51 |     | T.  |   |   | T. |    |     |    |     | .37 |     | T.  | 2.10   | .07  | .02 |     | .01 |     | T.  | .07 |     |    |    |    |    |      | 5.01   |
| Ridgefield**.....                          | Hackensack..... |               |   | *    | .17  | 2.38 | T.  |     |   |   | T. |    |     |    |     | .21 |     | *   | 1.15   | .25  |     | T.  | .02 |     | T.  | .06 | T.  |    |    |    |    |      | 4.24   |
| Somerville.....                            | Raritan.....    |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| South Orange.....                          | Rahway.....     |               |   | .12  | .88  | 2.13 |     |     |   |   | T. |    |     |    |     | .18 |     | .03 | 2.25   | .20  | T.  | T.  |     |     | .06 | T.  |     |    |    |    |    |      | 5.85   |
| Woodcliff Lake.....                        | Hackensack..... |               |   |      | .81  | 1.37 |     |     |   |   |    |    |     |    |     | *   |     |     | 1.15   | .45  |     |     |     |     | .19 |     |     |    |    |    |    |      | 3.97   |
| New York, N. Y***                          | Coast.....      |               |   | .14  | .91  | 1.25 |     | T.  |   |   | T. |    |     |    |     | .05 |     | .02 | .57    | .20  |     | .03 |     | .07 |     |     |     |    |    |    |    |      | 3.24   |
| <i>The Southern Interior.</i>              |                 |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| Belle Plain.....                           | Tuckahoe.....   |               |   | .12  | .38  | .05  |     |     |   |   |    |    | .09 |    |     | .17 |     | .30 | .69    | .02  |     |     | .03 |     |     | .06 | .13 |    |    |    |    |      | 2.04   |
| Bridgeton.....                             | Coast.....      |               |   | .11  | .75  | .05  |     |     |   |   | T. |    |     |    |     |     |     | .78 | .65    |      |     |     | .25 |     |     | .08 |     |    |    |    |    |      | 2.67   |
| Burlington.....                            | Delaware.....   |               |   | *    | .48  | 1.37 |     |     |   |   |    |    |     |    | *   | .05 |     |     | .87    | .01  |     |     |     |     |     |     |     |    |    |    |    |      | 2.78   |
| Camp Dix III.....                          | Delaware.....   |               |   | .19  | 1.98 | .02  | .04 |     |   |   |    |    |     |    | .05 | .01 |     | .46 | .81    | .04  |     | T.  |     | .10 |     | .33 |     |    |    |    |    |      | 4.03   |
| Clayton.....                               | Maurice.....    |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| Hammonton.....                             | Mullica.....    |               |   | .04  | .33  | .65  | T.  |     |   |   |    |    |     |    |     | .08 |     | .13 | .94    | .02  |     |     |     |     | .20 |     |     |    |    |    |    |      | 2.39   |
| Hightstown.....                            | Raritan.....    |               |   |      | .47  | 1.85 | T.  |     |   |   |    |    |     |    |     | .05 |     |     | .72    | .03  |     |     |     |     | .23 |     |     |    |    |    |    |      | 3.35   |
| Imlaystown.....                            | Delaware.....   |               |   |      | .45  | 1.22 | .01 |     |   |   |    |    |     |    | .02 | .03 |     |     | .60    | .11  |     |     |     |     | .12 |     |     |    |    |    |    |      | 2.56   |
| Indian Mills.....                          | Mullica.....    |               |   | T.   | .54  | 1.06 |     |     |   |   |    |    |     |    |     | T.  |     |     | 1.06   |      |     |     | .08 |     | .15 |     |     |    |    |    |    |      | 3.01   |
| Lakewood.....                              | Metedeconk..... |               |   |      | .28  | 1.00 | T.  |     |   |   |    |    |     |    |     | .10 |     |     | 1.13   | .52  |     |     |     |     | .20 |     |     |    |    |    |    |      | 3.23   |
| Moorestown.....                            | Delaware.....   |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| Northfield.....                            | Coast.....      |               |   | T.   | .10  | .20  | .02 |     |   |   |    |    |     |    |     | .15 |     | .08 | .48    | .09  | T.  |     |     |     |     | .04 |     |    |    |    |    |      | 1.16   |
| Pleasantville.....                         | Coast.....      |               |   | T.   | .07  | .25  | T.  |     |   |   |    |    |     |    |     | .04 |     | .03 | .67    | .08  |     |     |     |     | .22 |     |     |    |    |    |    |      | 1.36   |
| Trenton**.....                             | Delaware.....   |               |   | .11  | .84  | .87  |     |     |   |   | T. | T. |     |    | .02 | T.  |     | .18 | .90    | T.   |     | T.  | T.  |     | .11 | T.  |     |    |    |    |    |      | 3.03   |
| Tuckerton.....                             | Coast.....      |               |   | *    | *    | .30  |     |     |   |   |    |    |     |    |     | .05 |     |     | .81    |      |     |     |     |     | .44 | .68 |     |    |    |    |    |      | 2.28   |
| Vineland.....                              | Maurice.....    |               |   | 1.10 |      | .42  | .63 |     |   |   |    |    |     |    |     | .37 |     | .40 | .65    | .02  |     |     |     |     | .04 |     |     |    |    |    |    |      | 3.63   |
| Philadelphia, Pa.....                      | Delaware.....   |               |   | .17  | .70  | .17  |     |     |   |   |    |    |     |    | .05 | .03 |     | .47 | .25    | T.   |     |     | .55 |     | .01 | .07 |     |    |    |    |    |      | 2.47   |
| <i>The Sea Coast.</i>                      |                 |               |   |      |      |      |     |     |   |   |    |    |     |    |     |     |     |     |        |      |     |     |     |     |     |     |     |    |    |    |    |      |        |
| Asbury Park.....                           | Coast.....      |               |   | .09  | *    | 1.46 | .03 |     |   |   | T. |    |     |    |     | .01 |     |     | .77    | .95  | .03 |     |     |     | .20 | T.  |     |    |    |    |    |      | 3.54   |
| Atlantic City***                           | do.....         |               |   | .05  | .25  | .12  | .14 |     |   |   |    |    |     |    |     | T.  |     | .04 | .66    | .08  |     |     |     | T.  | .11 | T.  |     |    |    |    |    |      | 1.45   |
| Cape May City.....                         | do.....         |               |   | T.   | .01  | .08  | .16 |     |   |   |    |    | .06 |    |     | .02 | .01 | .35 | .41    | .07  |     |     |     |     | .02 | .04 |     |    |    |    |    |      | 1.23   |
| Long Branch**.....                         | do.....         |               |   | .07  | 1.01 | .76  |     |     |   |   |    |    |     |    |     | .01 |     | .06 | .68    | .24  | T.  |     |     |     | .27 | .05 |     |    |    |    |    |      | 3.15   |
| Sandy Hook***                              | do.....         |               |   | .12  | 1.07 | .89  |     |     |   |   | T. |    |     |    |     | .12 |     | .01 | .86    | .13  |     |     |     | .07 | T.  | T.  |     |    |    |    |    |      | 3.27   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity.<br>per cent. at 8 a. m. | Relative humidity.<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.02         | 30.51    | 1     | 29.48   | 19    | 17               | 52              | e          | 27        | 80                                         | 80                                         | 73                                  |
| Cape May City.....    | 30.05         | 30.54    | 1     | 29.56   | 18    | 8                | 38              | ne.        | 27        | 80                                         | 80                                         | 78                                  |
| Long Branch.....      | 30.00         | 30.49    | 1     | 29.46   | 19    | .....            | 44              | se.        | 18        | 82                                         | 78                                         | 78                                  |
| Newark.....           | 30.00         | 30.49    | 1     | 29.48   | 19    | .....            | .....           | .....      | .....     | 67                                         | 58                                         | 62                                  |
| New York, N. Y.....   | 30.00         | 30.49    | 1     | 29.48   | 19    | 13               | 60              | nw         | 11        | 67                                         | 60                                         | 75                                  |
| Philadelphia, Pa..... | 30.01         | 30.50    | 1     | 29.43   | 19    | 10               | 36              | sw.        | 19        | 67                                         | 58                                         | 71                                  |
| Ridgefield.....       | 30.00         | 30.50    | 1     | 29.47   | 19    | .....            | .....           | .....      | .....     | .....                                      | .....                                      | .....                               |
| Sandy Hook.....       | 30.00         | 30.49    | 1     | 29.46   | 19    | 13               | 46              | s.         | 10        | 78                                         | 76                                         | 80                                  |
| Trenton.....          | 30.00         | 30.48    | 1     | 29.43   | 19    | 11               | 40              | sw.        | 19        | 76                                         | 69                                         | 70                                  |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for May, 1922.

| Stations.                            | 1       | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | Mean. |                   |                   |
|--------------------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |                   |                   |
| Belvidere.....                       | Maximum | 71  | 79  | 77  | 60  | 63  | 74  | 77  | 72  | 80  | 84  | 84  | 74  | 78  | 70  | 75  | 79  | 70  | 69  | 72  | 74  | 80  | 81  | 85  | 85  | 80  | 87  | 75  | 77  | 84  | 85  | 81    | 76.8              |                   |
|                                      | Minimum | 31  | 40  | 46  | 40  | 45  | 51  | 56  | 50  | 45  | 53  | 52  | 53  | 42  | 50  | 52  | 45  | 44  | 53  | 57  | 47  | 51  | 65  | 53  | 56  | 52  | 54  | 52  | 46  | 45  | 51  | 52    | 49.3              |                   |
| Charlotteburg.....                   | Maximum | 70  | 78  | 76  | 65  | 64  | 67  | 75  | 67  | 73  | 82  | 77  | 70  | 72  | 72  | 75  | 73  | 65  | 62  | 70  | 75  | 77  | 77  | 79  | 80  | 76  | 80  | 68  | 74  | 82  | 82  | 74    | 73.5              |                   |
|                                      | Minimum | 23  | 43  | 42  | 53  | 42  | 48  | 52  | 48  | 40  | 48  | 51  | 31  | 32  | 43  | 53  | 38  | 33  | 48  | 54  | 40  | 45  | 48  | 54  | 39  | 50  | 60  | 53  | 36  | 38  | 48  | 44    | 44.4              |                   |
| Dover.....                           | Maximum | 72  | 79  | 75  | 65  | 58  | 75  | 76  | 71  | 78  | 85  | 82  | 74  | 77  | 69  | 77  | 74  | 64  | 62  | 72  | 77  | 79  | 77  | 82  | 83  | 77  | 84  | 64  | 76  | 85  | 84  | 78    | 75.2              |                   |
|                                      | Minimum | 29  | 44  | 50  | 47  | 45  | 46  | 56  | 50  | 42  | 51  | 52  | 40  | 38  | 45  | 55  | 44  | 38  | 50  | 54  | 45  | 50  | 54  | 46  | 54  | 62  | 57  | 43  | 46  | 51  | 50  | 48.0  |                   |                   |
| Layton.....                          | Maximum | 70  | 80  | 78  | 67  | 60  | 75  | 79  | 69  | 78  | 85  | 80  | 72  | 75  | 71  | 78  | 80  | 71  | 68  | 72  | 75  | 72  | 81  | 82  | 81  | 75  | 84  | 70  | 78  | 84  | 82  | 78    | 75.8              |                   |
|                                      | Minimum | 25  | 42  | 43  | 47  | 44  | 49  | 55  | 49  | 48  | 51  | 54  | 36  | 37  | 42  | 52  | 40  | 41  | 51  | 51  | 43  | 41  | 52  | ... | 41  | 50  | 58  | 45  | 41  | 40  | 45  | 48    | 43.9 <sup>a</sup> |                   |
| Newton.....                          | Maximum | 68  | 77  | 78  | 66  | 55  | 74  | 73  | 75  | 75  | 81  | 80  | 78  | 73  | 71  | 71  | 75  | 67  | 63  | 65  | 74  | 75  | 77  | 78  | 81  | 76  | 81  | 79  | 80  | 82  | 81  | 76    | 74.4              |                   |
|                                      | Minimum | 33  | 45  | 51  | 51  | 43  | 48  | 54  | 46  | 48  | 53  | 56  | 43  | 42  | 49  | 53  | 48  | 44  | 51  | 57  | 50  | 58  | 56  | 56  | ... | 54  | 59  | 54  | 43  | 50  | 54  | 54    | 50.1 <sup>a</sup> |                   |
| Phillipsburg.....                    | Maximum | 75  | ... | ... | 68  | 68  | 75  | 81  | 76  | 81  | 89  | 87  | 78  | ... | 71  | 78  | 78  | 71  | 69  | 76  | 80  | 84  | 81  | 87  | 86  | 86  | 90  | 75  | 82  | 89  | 88  | 86    | 79.9 <sup>a</sup> |                   |
|                                      | Minimum | 34  | 36  | 42  | 42  | 47  | 42  | 57  | 48  | 44  | 56  | 51  | 47  | 42  | 49  | 55  | 48  | 47  | 55  | 56  | 49  | 51  | 58  | 57  | 56  | 53  | 62  | 51  | 50  | 46  | 50  | 52    | 49.3              |                   |
| Sussex.....                          | Maximum | 72  | 80  | 80  | 68  | 56  | 75  | 77  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...   | ...               | 75.8 <sup>a</sup> |
|                                      | Minimum | 40  | 41  | 43  | 50  | 50  | 45  | 54  | ... | ... | ... | ... | 35  | 39  | 47  | 52  | 39  | ... | ... | ... | 54  | 44  | 49  | 53  | 54  | 45  | 52  | ... | 48  | 39  | ... | ...   | 46.3 <sup>1</sup> |                   |
| The Red Sandstone Plain.             |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |                   |                   |
| Bergen Point.....                    | Maximum | 64  | 66  | 73  | 74  | 67  | 68  | 67  | 75  | 77  | 82  | 76  | 69  | 72  | 69  | 68  | 72  | 67  | 71  | 79  | 79  | 80  | 81  | 78  | 78  | 77  | 77  | 84  | 74  | 73  | 81  | 82    | 74.2              |                   |
|                                      | Minimum | 44  | 50  | 55  | 53  | 46  | 51  | 54  | 53  | 50  | 51  | 50  | 55  | 52  | 56  | 54  | 50  | 54  | 57  | 56  | 57  | 57  | 59  | 54  | 58  | 62  | 54  | 47  | 53  | 56  | 54  | 53.3  |                   |                   |
| Boonton§§.....                       | Maximum | 68  | ... | 74  | 67  | 58  | 72  | 75  | 70  | 77  | 88  | 80  | 71  | 75  | 70  | 75  | 72  | 79  | 75  | 67  | 67  | 75  | 79  | 80  | 83  | 81  | 77  | 83  | 65  | 76  | 82  | 81    | 77.4 <sup>1</sup> |                   |
|                                      | Minimum | 29  | 40  | 47  | 55  | 44  | 40  | 50  | 51  | 46  | 50  | 52  | 36  | 36  | ... | ... | 52  | 42  | 39  | 50  | 55  | 46  | 50  | 54  | 51  | 44  | 52  | 60  | 55  | 44  | ... | 49    | 48                | 47.1 <sup>b</sup> |
| Elizabeth.....                       | Maximum | 72  | 80  | 80  | 70  | 60  | 71  | 79  | 75  | 80  | 87  | 84  | 72  | 77  | 70  | 78  | 75  | 65  | 67  | 75  | 82  | 74  | 79  | 82  | 82  | 82  | 88  | 77  | 77  | 86  | 87  | 81    | 77.6              |                   |
|                                      | Minimum | 36  | 42  | 50  | 52  | 47  | 49  | 53  | 54  | 47  | 56  | 49  | 46  | 44  | 47  | 55  | 49  | 48  | 53  | 57  | 49  | 53  | 58  | 54  | 52  | 52  | 63  | 57  | 48  | 49  | 55  | 56    | 51.0              |                   |
| Flemington.....                      | Maximum | 71  | 77  | 74  | 67  | 62  | 74  | 78  | 73  | 81  | 88  | 80  | 78  | 79  | 72  | 75  | 78  | 70  | 67  | 73  | 78  | 82  | 81  | 84  | 85  | 83  | 77  | 77  | 79  | 85  | 85  | 77    | 72.2              |                   |
|                                      | Minimum | 33  | 40  | 46  | 59  | 48  | 47  | 56  | 52  | 43  | 55  | 56  | 46  | 41  | 47  | 54  | 50  | 47  | 53  | 58  | 50  | 52  | 59  | 56  | 53  | 51  | 63  | 55  | 45  | 49  | 52  | 52    | 50.6              |                   |
| Highwood.....                        | Maximum | 70  | 79  | 80  | 79  | 56  | 72  | 78  | 75  | 78  | 85  | 81  | 72  | 72  | 70  | 76  | 74  | 67  | 66  | 71  | 76  | 81  | 78  | 80  | 77  | 81  | 81  | 74  | 86  | 85  | 77  | 75.9  |                   |                   |
|                                      | Minimum | 31  | 44  | 51  | 49  | 47  | 48  | 54  | 51  | 40  | 52  | 46  | 40  | 40  | 47  | 52  | 45  | 43  | 52  | 57  | 49  | 52  | 58  | 54  | 47  | 55  | 62  | 51  | 43  | 47  | 53  | 54    | 48.8              |                   |
| Jersey City.....                     | Maximum | 70  | 78  | 78  | 67  | 58  | 67  | 69  | 66  | 70  | 86  | 77  | 69  | 75  | 67  | 78  | 75  | 65  | 65  | 76  | 73  | 81  | 76  | 80  | 77  | 73  | 77  | 77  | 77  | 79  | ... | 79    | 73.5 <sup>a</sup> |                   |
|                                      | Minimum | 42  | 48  | 55  | 47  | 47  | 53  | 53  | 53  | 52  | 58  | 58  | 52  | 48  | 54  | 55  | 55  | 52  | 55  | 57  | 56  | 59  | 62  | 60  | 56  | 58  | 64  | 52  | 49  | 53  | 61  | 59    | 54.3              |                   |
| Kearny.....                          | Maximum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...   | ...               | ...               |
|                                      | Minimum | 71  | 76  | 75  | 65  | 62  | 72  | 77  | 71  | 78  | 84  | 80  | 72  | 77  | 69  | 72  | 75  | 64  | 67  | 72  | 77  | 80  | 78  | 80  | 82  | 80  | 83  | 71  | 75  | 83  | 84  | 79    | 75.2              |                   |
| Lambertville.....                    | Maximum | 38  | 41  | 49  | 53  | 42  | 42  | 54  | 51  | 45  | 55  | 54  | 42  | 41  | 48  | 54  | 51  | 44  | 53  | 57  | 51  | 55  | 59  | 56  | 51  | 52  | 63  | 48  | 41  | 50  | 56  | 51    | 49.9              |                   |
|                                      | Minimum | 71  | 78  | 77  | 65  | 57  | 75  | 78  | 72  | 80  | 87  | 82  | 72  | 76  | 72  | 79  | 75  | 67  | 67  | 75  | 79  | 80  | 80  | 83  | 84  | 80  | 86  | 66  | 78  | 85  | 86  | 77    | 76.4              |                   |
| Little Falls§§.....                  | Maximum | 32  | 50  | 52  | 58  | 47  | 47  | 53  | 52  | 46  | 52  | 50  | 40  | 41  | 46  | 53  | 48  | 42  | 52  | 52  | 49  | 53  | 57  | 54  | 48  | 54  | 61  | 55  | 46  | 48  | 53  | 53    | 49.8              |                   |
|                                      | Minimum | 69  | 77  | 77  | 65  | 56  | 70  | 78  | 75  | 81  | 87  | 80  | 67  | 73  | 69  | 73  | 67  | 65  | 72  | 79  | 80  | 78  | 80  | 79  | 87  | 66  | 77  | 77  | 83  | 84  | 75  | 74.6  |                   |                   |
| Newark.....                          | Maximum | 53  | 48  | 54  | 46  | 47  | 51  | 54  | 55  | 52  | 60  | 59  | 50  | 49  | 54  | 58  | 55  | 48  | 53  | 57  | 57  | 59  | 62  | 60  | 55  | 57  | 64  | 52  | 49  | 66  | 60  | 59    | 54.9              |                   |
|                                      | Minimum | 70  | 76  | 77  | 69  | 59  | 71  | 78  | 75  | 83  | 80  | 70  | 75  | 70  | 73  | 67  | 68  | 71  | 78  | 81  | 76  | 80  | 80  | 83  | 75  | 73  | 82  | 83  | 82  | 85  | 82  | 75.3  |                   |                   |
| New Brunswick.....                   | Maximum | 36  | 43  | 51  | 54  | 47  | 48  | 53  | 52  | 46  | 54  | 52  | 45  | 42  | 48  | 54  | 49  | 47  | 54  | 57  | 51  | 53  | 59  | 55  | 50  | 53  | 63  | 53  | 45  | 45  | 55  | 52    | 50.5              |                   |
|                                      | Minimum | 74  | 81  | 80  | 72  | 57  | 73  | 80  | 75  | 80  | 88  | 85  | 75  | 75  | 72  | 80  | 76  | 67  | 65  | 71  | 81  | 84  | 80  | 82  | 83  | 80  | 88  | 83  | 77  | 89  | 88  | 89    | 78.4              |                   |
| Paterson.....                        | Maximum | 40  | 50  | 53  | 52  | 47  | 49  | 53  | 52  | 48  | 57  | 55  | 45  | 45  | 50  | 56  | 48  | 46  | 52  | 57  | 51  | 57  | 60  | 57  | 52  | 63  | 57  | 56  | 49  | 51  | 57  | 56    | 52.3              |                   |
|                                      | Minimum | 70  | 77  | 77  | 66  | 61  | 73  | 77  | 73  | 78  | 87  | 83  | 70  | 75  | 67  | 75  | 71  | 65  | 66  | 72  | 79  | 82  | 78  | 81  | 82  | 81  | 77  | 64  | 47  | 54  | 55  | 52    | 50.2              |                   |
| Plainfield.....                      | Maximum | 31  | 39  | 48  | 48  | 44  | 49  | 52  | 52  | 45  | 49  | 52  | 41  | 38  | 45  | 51  | 46  | 40  | 51  | 57  | 45  | 60  | 56  | 52  | 46  | 47  | 54  | 45  | 41  | 46  | 50  | 46    | 47.3              |                   |
|                                      | Minimum | 68  | 78  | 77  | 64  | 57  | 70  | 78  | 70  | 78  | 85  | 80  | 67  | 72  | 69  | 77  | 73  | 64  | 66  | 73  | 78  | 80  | 78  | 79  | 77  | 78  | 85  | 66  | 74  | 84  | 84  | 77    | 74.4              |                   |
| Ridgefield.....                      | Maximum | 34  | 46  | 53  | 46  | 46  | 49  | 54  | 51  | 43  | 55  | 51  | 44  | 43  | 48  | 53  | 48  | 46  | 52  | 55  | 53  | 55  | 58  | 55  | 48  | 55  | 62  | 47  | 45  | 50  | 56  | 56    | 50.2              |                   |
|                                      | Minimum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...   | ...               | ...               |
| Somerville.....                      | Maximum | 69  | 75  | 75  | 66  | 58  | 69  | 76  | 70  | 75  | 82  | 79  | 67  | 72  | 68  | 74  | 70  | 66  | 64  | 72  | 77  | 77  | 78  |     |     |     |     |     |     |     |     |       |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist,

VOL. XXVII. TRENTON, N. J., JUNE, 1922. No. 6.

### GENERAL SUMMARY.

The average warmth of June 1922, in New Jersey has been exceeded but three times, in 1889, 1895, and 1892, in the past 37 years. The excess of temperature persisted on every day except the 5th, 12th, 17th, and 27th-28th, and was effectual through the high night-time temperatures, rather than through great heat during the middle of the day. In fact the extreme maximum for the State was but 95°, which is normally very consistently exceeded in June.

The other weather feature of the month was the persistent and copious rain, which fell very generally on the first six days, then on the 11th, and from the 17th to the 28th, except that there were scattered dry spots on the 19th, 23d, 24th and 26th.

The heaviest amounts of rain were attendant upon violent thundershowers, notably on the 5th, 11th and 28th.

As would be expected, with unusual frequency of rain, sunshine was deficient, and farm work became considerably hampered, especially in the matter of cultivation, and harvest of hay. The growth of vegetation, however, was notably vigorous and rapid.

Storm warnings were displayed along the coast on the 18th-19th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 71.1°, which was 2.5° above the normal. The highest temperature was 95° at Asbury Park on the 11th, and the lowest, 39° at Belle Plain on the 13th. The highest monthly mean temperature was 74.2° at Moorestown, and the lowest, 66.6° at Charlotteburg. The greatest daily range of temperature was 43° at Belle Plain on the 13th.

The temperature departure from the normal for the year 1922, to date, by sections, is: The Highlands, +1.8°; Red Sandstone Plain, +1.5°; Southern Interior, +2.0°; Sea Coast, +2.0°.

### PRECIPITATION.

The average total rainfall for the State, as deduced from observations of 45 stations, was 6.31 inches, which was 2.52 inches above the normal. The greatest monthly amount was 11.50 inches at Newark, and the least, 2.97 inches at Northfield. The greatest amount of rain in 24 consecutive hours was 6.05 inches at Lakewood on the 28th. The average number of days on which 0.01 inch or more rain fell was 15, which was 6 more than the normal. The precipitation accumulated departure from the normal for the year 1922, to date, by sections, is: The Highlands, +0.62 inch; Red Sandstone Plain, +2.38 inches; Southern Interior, -1.03 inches; Sea Coast, -0.05 inch.

### WIND.

The prevailing wind direction for the month was from the southwest, with an average velocity of 11 miles per hour, which was 1 mile above the normal. The highest velocity for the month, sustained for five consecutive minutes, was 50 miles per hour from the west on the 11th at Sandy Hook. High winds were also noted on the 12th, 17th, and 21st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was

12, or normal; partly cloudy, 9, which was 2 less than the normal; cloudy, 9, which was 2 more than the normal. The percentage of possible sunshine was 56, which was 5 per cent less than the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 3.6 feet, and the highest stage, 6.0 feet on the 20th. At Trenton the mean daily stage was 2.8 feet, which was 0.9 foot above the normal; the highest stage was 6.1 feet on the 5th.

The mean atmospheric pressure, reduced to sea level, was 29.98 inches, which was normal. The highest reading was 30.20 inches at Cape May City on the 6th, and the lowest, 29.48 inches at Sandy Hook on the 11th.

Thunderstorms occurred in some portions of the State on the 3d, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 17th, 18th, 21st, 22d, 24th, 25th, 27th, 28th, and 29th. Solar halos were observed on the 8th, 11th and 27th, and a lunar halo on the 4th. Dense fog occurred on the 1st, 2d, 5th, 7th, 8th, 16th, 19th, 20th, 21st, 27th, and 29th.

### HAIL.

May 1922: Hail occurred at Chatham, Culvers Lake, and Dover on the 19th, and at Belle Plain on the 28th; the amounts were small and the damage inappreciable.

June 1922: Little damage resulted from hail at Layton on the 6th, Kearny, Sandy Hook, and South Orange on the 11th, and at Trenton on the 21st.

### ERRATA.

May 1922: Bergen Point, omit maximum temperatures on the 15th, 27th, and 29th, and minimum temperature on the 13th. Mean maximum temperature should read 74.1°, and mean minimum 53.2°. Monthly mean temperature should read 63.6°.

### COMPARATIVE DATA FOR JUNE.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 68.7         | 97       | 39      | 1.79           | 3.37      | 0.72   | .....        | .....          | .....   | .....                  |
| 1886..... | 67.1         | 91       | 41      | 3.38           | 5.79      | 2.22   | .....        | .....          | .....   | .....                  |
| 1887..... | 68.2         | 97       | 42      | 6.77           | 10.29     | 4.21   | .....        | .....          | .....   | .....                  |
| 1888..... | 70.8         | 99       | 39      | 2.59           | 5.69      | 1.67   | .....        | .....          | .....   | .....                  |
| 1889..... | 69.9         | 91       | 40      | 3.73           | 6.75      | 2.39   | .....        | .....          | .....   | .....                  |
| 1890..... | 70.7         | 95       | 42      | 3.59           | 5.16      | 0.99   | 11           | 13             | 6       | 7                      |
| 1891..... | 69.7         | 102      | 38      | 2.92           | 6.71      | 1.24   | 14           | 9              | 7       | 5                      |
| 1892..... | 72.4         | 98       | 44      | 3.85           | 6.12      | 1.58   | 10           | 12             | 8       | 11                     |
| 1893..... | 69.7         | 103      | 40      | 2.95           | 7.02      | 0.46   | 10           | 11             | 9       | 8                      |
| 1894..... | 70.6         | 102      | 35      | 2.28           | 5.90      | 0.99   | 14           | 11             | 5       | 9                      |
| 1895..... | 71.7         | 103      | 39      | 3.24           | 5.99      | 0.93   | 11           | 11             | 8       | 10                     |
| 1896..... | 68.1         | 96       | 37      | 5.46           | 13.45     | 2.64   | 12           | 10             | 8       | 10                     |
| 1897..... | 66.1         | 95       | 35      | 3.38           | 5.50      | 2.12   | 10           | 13             | 7       | 10                     |
| 1898..... | 70.1         | 100      | 38      | 2.10           | 3.54      | 1.13   | 14           | 12             | 4       | 8                      |
| 1899..... | 72.3         | 103      | 38      | 2.50           | 4.34      | 1.01   | 15           | 10             | 5       | 7                      |
| 1900..... | 70.4         | 97       | 39      | 3.08           | 4.91      | 1.10   | 12           | 12             | 6       | 8                      |
| 1901..... | 70.0         | 103      | 35      | 1.57           | 4.36      | 0.73   | 18           | 8              | 4       | 5                      |
| 1902..... | 67.5         | 99       | 37      | 6.57           | 10.21     | 4.54   | 14           | 11             | 5       | 11                     |
| 1903..... | 64.0         | 92       | 37      | 7.68           | 15.02     | 2.39   | 6            | 10             | 14      | 15                     |
| 1904..... | 68.6         | 100      | 34      | 3.13           | 5.44      | 1.91   | 13           | 10             | 7       | 12                     |
| 1905..... | 68.3         | 96       | 35      | 3.43           | 8.71      | 1.67   | 11           | 12             | 7       | 10                     |
| 1906..... | 70.4         | 98       | 38      | 4.48           | 9.18      | 1.45   | 11           | 11             | 8       | 12                     |
| 1907..... | 64.7         | 96       | 31      | 4.41           | 6.85      | 3.15   | 12           | 10             | 8       | 10                     |
| 1908..... | 69.9         | 99       | 35      | 2.32           | 4.63      | 0.77   | 16           | 12             | 2       | 4                      |
| 1909..... | 70.0         | 99       | 36      | 3.26           | 5.70      | 1.71   | 9            | 10             | 11      | 12                     |
| 1910..... | 66.9         | 95       | 34      | 5.17           | 8.01      | 2.66   | 9            | 10             | 11      | 13                     |
| 1911..... | 68.9         | 97       | 40      | 5.36           | 10.11     | 2.84   | 9            | 12             | 9       | 14                     |
| 1912..... | 68.0         | 98       | 33      | 1.94           | 3.61      | 0.91   | 9            | 12             | 9       | 8                      |
| 1913..... | 69.1         | 98       | 31      | 1.80           | 3.76      | 0.68   | 19           | 8              | 3       | 5                      |
| 1914..... | 68.5         | 98       | 35      | 2.66           | 4.85      | 1.09   | 16           | 9              | 6       | 7                      |
| 1915..... | 67.0         | 95       | 36      | 3.12           | 6.51      | 1.40   | 13           | 10             | 7       | 11                     |
| 1916..... | 64.7         | 87       | 36      | 4.20           | 5.99      | 2.22   | 10           | 9              | 1       | 13                     |
| 1917..... | 68.9         | 95       | 40      | 4.27           | 7.14      | 2.80   | 13           | 10             | 7       | 12                     |
| 1918..... | 66.3         | 96       | 32      | 3.43           | 6.21      | 1.35   | 15           | 9              | 6       | 8                      |
| 1919..... | 69.5         | 99       | 37      | 3.16           | 3.58      | 0.37   | 16           | 7              | 7       | 8                      |
| 1920..... | 68.4         | 98       | 38      | 6.18           | 11.26     | 3.12   | 13           | 9              | 8       | 12                     |
| 1921..... | 70.4         | 100      | 33      | 3.23           | 5.64      | 1.40   | 18           | 7              | 5       | 8                      |
| 1922..... | 71.1         | 95       | 39      | 6.31           | 11.50     | 2.97   | 12           | 9              | 9       | 15                     |



## Climatological Data for June, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |                 |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|-----------------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest.         | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 71.2                          | +2.4                       | 91              | 8     | 47              | 14    | 38                        | 4.18   | +0.18                      | 1.12                  | 0                          | 12                             | 19     | 5           | 6                             | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 66.6 <sup>a</sup>             | +1.8                       | 88              | 8     | 41              | 15    | 39                        | 7.20   | +3.08                      | 2.56                  | 0                          | 14                             | 14     | 8           | 8                             | .....      | Newark Water Dept.        |
| Culvers Lake†.....                          | Sussex.....     | 848              | 21                       | 69.8 <sup>a</sup>             | +3.1                       | 89              | 7†    | 45              | 13†   | 30                        | 6.83   | +2.22                      | 1.72                  | 0                          | 16                             | 15     | 7           | 8                             | n.         | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 38                       | 69.8 <sup>a</sup>             | +3.1                       | 89              | 7†    | 46              | 13    | 30                        | 7.54   | +3.51                      | 3.61                  | 0                          | 12                             | .....  | .....       | .....                         | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 68.9                          | +3.4                       | 91              | 9     | 44              | 13    | 40                        | 8.99   | +5.20                      | 1.76                  | 0                          | 13                             | 14     | 6           | 10                            | sw.        | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 69.0 <sup>a</sup>             | +1.0                       | 87              | 8     | 48              | 13    | 31                        | 5.54   | +1.56                      | 1.76                  | 0                          | 14                             | 13     | 7           | 10                            | sw.        | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 72.4 <sup>d</sup>             | +3.1                       | 94 <sup>g</sup> | 11    | 50              | 13†   | 36                        | 3.58   | -0.05                      | 1.15                  | 0                          | 11                             | 20     | 2           | 8                             | .....      | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 70.4 <sup>e</sup>             | +3.6                       | 91 <sup>e</sup> | 9     | 43 <sup>e</sup> | 13    | 40†                       | 6.75   | +3.07                      | 1.40                  | 0                          | 15                             | .....  | .....       | .....                         | sw.        | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 69.8                          | +2.6                       | 94              | 11    | 41              | 15    | 40                        | 6.33   | +2.35                      | 3.61                  | 0                          | 13                             | 16     | 6           | 8                             | sw.        |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point†.....                          | Hudson.....     | 37               | 25                       | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | 6.61   | .....                      | 1.65                  | 0                          | 15                             | .....  | .....       | .....                         | .....      | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 32                       | 69.2 <sup>a</sup>             | +1.6                       | 89              | 8     | 46              | 15    | 34                        | 6.06   | +2.39                      | 1.38                  | 0                          | 14                             | 18     | 3           | 9                             | nw.        | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | 5.71   | +1.65                      | 1.03                  | 0                          | 14                             | .....  | .....       | .....                         | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 72.2                          | +1.7                       | 92              | 8     | 50              | 13†   | 33                        | 7.62   | +4.00                      | 2.13                  | 0                          | 17                             | 10     | 12          | 8                             | sw.        | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | .....                         | .....                      | 92              | 7     | 50              | 13†   | .....                     | 5.83   | +1.99                      | 2.33                  | 0                          | 17                             | 16     | 7           | 7                             | sw.        | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 69.6                          | +2.0                       | 89              | 8†    | 47              | 13    | 29                        | 8.87   | +5.18                      | 1.98                  | 0                          | 17                             | 5      | 13          | 12                            | nw.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 72.9                          | +2.0                       | 91              | 11    | 53              | 13    | 28                        | 8.09   | +4.59                      | 1.50                  | 0                          | 17                             | 11     | 13          | 6                             | s.         | S. K. Pearson, Jr.        |
| Kearny.....                                 | Hudson.....     | 100              | 3                        | 73.0                          | .....                      | 91              | 10    | 51              | 13    | 26                        | 8.15   | .....                      | 2.05                  | 0                          | 12                             | 10     | 10          | 10                            | ne.        | Wm. J. Chandler, M. D.    |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 70.5                          | +0.8                       | 88              | 11†   | 48              | 13    | 31                        | 7.04   | +3.13                      | 1.37                  | 0                          | 16                             | 13     | 8           | 9                             | w.         | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 71.0                          | +3.3                       | 91              | 7†    | 48              | 13    | 31                        | 7.59   | +4.07                      | 1.33                  | 0                          | 16                             | 9      | 12          | 9                             | nw.        | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 80                       | 72.4                          | +3.1                       | 92              | 8     | 53              | 13    | 25                        | 11.50  | +7.74                      | 1.55                  | 0                          | 20                             | 11     | 10          | 9                             | sw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 71.2                          | +2.1                       | 89              | 11    | 48              | 13    | 31                        | 7.59   | +3.83                      | 2.72                  | 0                          | 16                             | .....  | .....       | .....                         | w.         | N. J. Experiment Station. |
| New Milford†.....                           | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | 6.61   | .....                      | 1.65                  | 0                          | 15                             | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 72.2                          | +2.4                       | 93              | 8     | 50              | 13    | 32                        | 5.75   | +1.63                      | 1.28                  | 0                          | 16                             | .....  | .....       | .....                         | nw.        | Marion T. Probert.        |
| Plainfield.....                             | Union.....      | 110              | 34                       | 70.4                          | +1.6                       | 90              | 8     | 43              | 13    | 34                        | 6.75   | +3.01                      | 1.72                  | 0                          | 20                             | 9      | 19          | 2                             | s.         | E. D. Pearson.            |
| Ridgefield†.....                            | Bergen.....     | 70               | 7                        | 70.5                          | .....                      | 89              | 8     | 48              | 13    | 27                        | 9.05   | .....                      | 2.49                  | 0                          | 17                             | 9      | 13          | 8                             | s.         | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 74               | 39                       | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      |                           |
| South Orange.....                           | Essex.....      | 200              | 52                       | 70.9                          | +2.1                       | 89              | 8†    | 50              | 13    | 28                        | 7.33   | +3.78                      | 1.11                  | 0                          | 16                             | 14     | 8           | 8                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake†.....                        | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | 4.39   | .....                      | 0.74                  | 0                          | 11                             | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| New York, N. Y.....                         |                 | 365              | 52                       | 70.6                          | +2.1                       | 87              | 7     | 53              | 13    | 24                        | 7.86   | +4.60                      | 2.18                  | 0                          | 16                             | 3      | 12          | 15                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 71.2                          | +2.1                       | 93              | 8     | 43              | 13    | 34                        | 7.29   | +3.61                      | 2.72                  | 0                          | 16                             | 11     | 11          | 8                             | nw.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 71.8                          | +3.1                       | 91              | 11    | 39              | 13    | 43                        | 4.20   | +0.98                      | 1.06                  | 0                          | 13                             | 15     | 9           | 6                             | sw.        | Thomas J. Durell.         |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 74.0                          | +1.9                       | 92              | 11    | 50              | 13    | 31                        | 4.73   | +1.00                      | 1.13                  | 0                          | 13                             | .....  | .....       | .....                         | .....      | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 73.4 <sup>a</sup>             | +3.7                       | 93              | 11†   | 50              | 15    | 38                        | 4.37   | +0.37                      | 0.98                  | 0                          | 13                             | .....  | .....       | .....                         | .....      | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 71.7                          | .....                      | 89              | 11†   | 46              | 13    | 33                        | 5.06   | .....                      | 0.91                  | 0                          | 20                             | .....  | .....       | .....                         | .....      | U. S. Army.               |
| Clayton.....                                | Gloucester..... | 130              | 29                       | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      |                           |
| Hammononton.....                            | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | 4.31   | +0.79                      | 1.29                  | 0                          | 14                             | 13     | 5           | 12                            | w.         | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 71.1                          | +2.1                       | 91              | 11    | 46              | 13    | 32                        | 6.05   | +2.45                      | 1.00                  | 0                          | 17                             | 16     | 5           | 9                             | sw.        | E. H. Savage, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 72.2                          | +1.9                       | 92              | 9     | 47              | 15    | 38                        | 6.20   | +2.43                      | 1.30                  | 0                          | 17                             | 13     | 7           | 10                            | w.         | Wm. R. Hendrickson.       |
| Indian Mills†.....                          | Burlington..... | 76               | 33                       | 71.8                          | +2.0                       | 91              | 11†   | 45              | 15    | 39                        | 4.47   | +0.34                      | 0.90                  | 0                          | 15                             | 7      | 11          | 12                            | sw.        | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 71.5                          | +4.0                       | 92              | 11    | 47              | 13†   | 34                        | 11.22  | +7.51                      | 6.05                  | 0                          | 14                             | 12     | 8           | 10                            | sw.        | R. W. Holman.             |
| Moorestown.....                             | Burlington..... | 75               | 59                       | 74.2 <sup>a</sup>             | +4.2                       | 90              | 11    | 54              | 18    | 33                        | 4.37   | +0.65                      | 0.96                  | 0                          | 13                             | 7      | 13          | 10                            | e          | Stokes Seed Farms Co.     |
| Northfield.....                             | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | 2.97   | -0.70                      | 0.76                  | 0                          | 14                             | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville†.....                         | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....           | ..... | .....           | ..... | .....                     | 5.12   | +1.19                      | 0.87                  | 0                          | 13                             | 18     | 3           | 9                             | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 71.8                          | +2.3                       | 89              | 11    | 52              | 13    | 26                        | 4.98   | +1.49                      | 1.12                  | 0                          | 16                             | 5      | 11          | 14                            | w.         | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 71.0                          | +2.6                       | 94              | 11    | 42              | 13    | 26                        | 4.13   | +0.30                      | 0.80                  | 0                          | 9                              | 15     | 9           | 6                             | s.         | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 73.6 <sup>a</sup>             | +2.4                       | 92              | 11†   | 48              | 13    | 34                        | 5.77   | +2.20                      | 1.84                  | 0                          | 15                             | 11     | 10          | 9                             | sw.        | H. C. Himes               |
| Philadelphia, Pa.....                       |                 | 117              | 52                       | 73.6                          | +2.4                       | 90              | 11    | 56              | 13    | 22                        | 4.56   | +1.26                      | 1.18                  | 0                          | 14                             | 2      | 16          | 12                            | nw.        | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 72.3                          | +2.7                       | 94              | 11    | 39              | 13    | 43                        | 5.20   | +1.50                      | 6.05                  | 0                          | 14                             | 12     | 8           | 10                            | sw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |                 |       |                 |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 69.3 <sup>b</sup>             | +1.9                       | 95              | 11    | 52              | 13    | 28                        | 6.28   | +2.66                      | 1.32                  | 0                          | 16                             | 10     | 7           | 13                            | s.         | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 69.9                          | +3.3                       | 90              | 11    | 54              | 13    | 22                        | 5.46   | +2.43                      | 1.53                  | 0                          | 15                             | 9      | 11          | 10                            | s.         | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 3 <sup>a</sup>           | 70.7                          | +3.0                       | 92              | 11    | 55              | 15    | 24                        | 5.15   | +2.11                      | 1.85                  | 0                          | 18                             | 10     | 7           | 13                            | s.         | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 69.6                          | +3.4                       | 93              | 11    | 51              | 13    | 25                        | 5.42   | +1.62                      | 1.74                  | 0                          | 17                             | 8      | 12          | 10                            | s.         | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 70.2                          | +2.4                       | 83              | 8     | 56              | 13    | 22                        | 8.98   | +5.02                      | 1.93                  | 0                          | 16                             | 6      | 14          | 10                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 69.9                          | +2.8                       | 95              | 11    | 51              | 13    | 28                        | 6.26   | +2.77                      | 1.93                  | 0                          | 16                             | 9      | 10          | 11                            | s.         |                           |
| For the State.....                          |                 |                  |                          | 71.1                          | +2.5                       | 95              | 11    | 39              | 13    | 43                        | 6.31   | +2.52                      | 6.05                  | 0                          | 15                             | 12     | 9           | 9                             | sw.        |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

The station at Belle Plain is

about five miles from Woodbine, and will be considered as a continuation of the Woodbine station.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliff are Weehawken.



## Daily Precipitation for June, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |      |      |      |      |      |      |     |     |     |      |     |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       | Total. |
|--------------------------------------------|-----------------|---------------|------|------|------|------|------|------|-----|-----|-----|------|-----|-----|----|-----|----|------|------|-----|------|-----|-----|-----|------|------|------|------|------|-----|-------|-------|--------|
|                                            |                 | 1             | 2    | 3    | 4    | 5    | 6    | 7    | 8   | 9   | 10  | 11   | 12  | 13  | 14 | 15  | 16 | 17   | 18   | 19  | 20   | 21  | 22  | 23  | 24   | 25   | 26   | 27   | 28   | 29  | 30    | 31    |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |      |      |      |      |      |     |     |     |      |     |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       |        |
| Belvidere.....                             | Delaware.....   |               |      | .53  | 1.12 |      | *    |      |     |     |     | .44  |     |     |    |     |    |      | .27  |     | .11  | .23 | .33 | .10 |      | .45  | .05  | .31  | .24  |     |       | 4.18  |        |
| Charlotteburg.....                         | Passaic.....    | *             | 1.53 | 2.56 |      | .17  | .62  |      |     |     |     | .48  |     |     |    |     |    | .04  | .47  |     | .05  | .41 | .09 |     | .27  |      | .27  | .24  |      |     |       | 7.20  |        |
| Culvers Lake.....                          | Delaware.....   |               | .56  | 1.72 | .05  | .72  | .02  | .20  |     |     |     | .51  |     |     |    |     |    | .55  | 1.32 |     | .02  | .30 | .03 |     | .02  |      | .58  | .22  | .01  |     |       | 6.83  |        |
| Dover.....                                 | Passaic.....    | T.            | *    | 3.61 |      | .90  | .05  |      |     | .25 |     | .36  |     |     |    |     |    | *    | .80  |     | *    | .45 |     |     |      | .18  |      | .58  | .94  |     |       |       | 7.54   |
| Layton.....                                | Delaware.....   |               | .64  | 1.62 |      | 1.23 | 1.48 | .89  |     | .03 |     | .28  |     |     |    |     |    | 1.76 | .55  |     | .08  | .12 |     |     |      |      |      | .26  | .05  |     |       | 8.99  |        |
| Newton.....                                | Delaware.....   |               | .21  | .69  | .73  | .45  | .16  |      |     |     |     | .60  |     |     |    |     |    | .03  | 1.76 |     | .02  | .28 |     |     |      | .09  | .02  | .42  | .08  | T   |       | 5.54  |        |
| Phillipsburg.....                          | do.....         |               | .62  | 1.15 |      | .14  |      |      |     |     |     | .29  |     |     |    |     |    | \$   | 1.76 |     | .14  | .19 | .09 | .07 |      | .21  |      | .39  | .29  |     |       | \$    |        |
| Sussex.....                                | Hudson.....     | T.            | .40  | 1.00 | .61  | .77  | .04  | .36  |     |     |     | .30  | .15 |     |    |     |    | 1.40 | .91  |     | .12  | .52 | .06 | .01 |      | .10  |      | *    | .94  |     |       | \$    |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |      |      |      |      |      |     |     |     |      |     |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       |        |
| Bergen Point.....                          | Coast.....      |               |      |      |      |      |      |      |     |     |     |      | .27 |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       | 6.06   |
| Boonton   .....                            | Passaic.....    |               | .01  | 1.01 | 1.01 |      | 1.38 | .12  |     |     | T.  | .07  |     |     |    |     |    |      | .74  | .03 |      | .31 | .04 |     | .11  | .24  | T    | .72  |      |     |       | 5.71  |        |
| Chatham   .....                            | do.....         |               | .07  | .78  | .80  |      | 1.03 | .20  |     |     | T.  | .49  | .14 |     |    |     |    |      | .51  | .33 |      | .38 | .04 |     | .27  | .19  |      | .48  |      |     |       | 7.62  |        |
| Elizabeth.....                             | Coast.....      | .10           | .20  | 1.00 | .40  | .67  | 1.46 | T    |     |     | .08 | .10  |     |     |    |     |    | .53  | .14  |     | *    | .52 | .02 |     | 1.02 | .35  |      | .89  | T    | .14 |       | 5.83  |        |
| Flemington.....                            | Raritan.....    | .13           | .44  | 2.33 | .06  | .22  | .29  | .04  |     |     |     | .03  |     |     |    |     |    | .06  | .92  |     | .18  | .24 | .06 |     | .21  | .22  | .29  | .14  | T    |     |       | 8.87  |        |
| Highwood.....                              | Hackensack..... | .01           | .15  | .90  | .17  | .14  | .51  |      |     | T   |     | .64  |     |     |    |     |    | .83  | 1.98 |     | .11  | .74 | .09 |     | .43  | .17  | 1.45 | .32  | .23  |     |       |       |        |
| Jersey City.....                           | Coast.....      | .05           | .13  | .74  | .05  | .45  | 1.50 |      |     | T.  |     | .88  |     |     |    | T.  |    | .60  | .87  |     | .12  | .69 | *   | T.  | .01  | 1.32 | .30  | .20  | .02  | .21 |       | 8.09  |        |
| Kearny.....                                | Coast.....      | .08           | T.   | *    | .52  | *    | 1.90 |      |     |     |     | .36  |     |     |    |     |    | .56  | .52  |     | *    | *   |     |     | 1.61 | .20  | 2.05 | .35  |      |     |       | 8.15  |        |
| Lambertville.....                          | Delaware.....   | .27           | .70  | 1.37 | .06  | .21  | .87  |      |     |     |     | .11  |     |     |    |     |    | .21  | .64  |     | .10  | .88 | .09 |     | .08  | .17  | 1.17 | .11  | T    |     | 7.04  |       |        |
| Little Falls.                              | Passaic.....    |               | .03  | .98  | .68  |      | 1.33 | .20  |     |     | .79 | .05  | .32 |     |    |     |    | .49  | .49  |     | .21  | .52 | .03 |     | .50  | .45  | .52  |      |      |     | 7.59  |       |        |
| Newark**.....                              | Coast.....      | .16           | .44  | 1.46 | .04  | .88  | .49  | .15  |     | .13 |     | 1.55 |     |     |    |     |    | .54  | .86  |     | .80  | .10 | .13 |     | 1.12 | .55  | .08  | 1.07 | .81  | .14 |       | 11.50 |        |
| New Brunswick.....                         | Raritan.....    | .15           | .19  | .80  | .32  | .29  | 2.72 |      |     |     | T.  | .25  |     |     |    |     |    | .01  | .59  |     | T.   | .30 | .06 |     | 1.10 | .39  | .23  | .05  | .14  |     |       | 7.59  |        |
| New Milford.....                           | Hackensack..... |               | .39  | .51  | .01  | .25  | .38  |      |     |     |     | .48  |     |     |    |     |    | .15  | 1.65 |     | .03  | .59 | .03 |     | .43  | .88  |      | .79  | .04  |     | 6.61  |       |        |
| Paterson.....                              | Passaic.....    | T.            | .12  | .86  |      | .93  | .35  | T.   |     |     | .20 | .41  |     |     |    |     |    | .10  | .28  | T.  | .40  | .36 | .02 | T.  |      | .80  | .47  | .38  | .04  | .03 |       | 5.75  |        |
| Plainfield.....                            | Raritan.....    | .14           | .37  | 1.11 | .01  | .86  | .86  | .01  |     |     |     | .24  |     |     |    |     |    | .38  | .50  |     | .11  | .22 | .02 | .02 | .03  | .49  | .36  | .86  | .12  | .04 |       | 6.75  |        |
| Ridgefield**.....                          | Hackensack..... |               | .12  | .32  | .80  | *    | 1.11 |      |     | .02 |     | .49  |     |     |    | .03 |    | *    | 2.49 |     | .03  | .77 | .03 | T   |      | .77  | .15  |      | 1.80 | .12 |       | 9.05  |        |
| Somerville.....                            | Raritan.....    |               |      |      |      |      |      |      |     |     |     |      |     |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       |        |
| South Orange.....                          | Rahway.....     | .10           | .70  | .95  | .09  | 1.11 | .63  |      |     |     |     | .61  |     |     |    |     |    | .50  | .40  |     | .24  | .30 | .01 |     |      | .73  | .37  | .56  | .03  | T.  |       | 7.33  |        |
| Woodclife Lake.....                        | Hackensack..... |               | .45  | .64  |      | .32  | .18  |      |     |     |     | .20  |     |     |    |     |    | .10  | .56  |     |      | .44 |     |     |      | .30  | .52  |      | .74  |     |       | 4.89  |        |
| New York, N. Y***                          | Coast.....      | .11           | .33  | .40  | .04  | .23  | 1.95 |      |     | T.  |     | .69  |     |     |    | T.  |    | .56  | .99  |     | .34  | .61 | .02 |     | T    | 1.28 | T.   | .26  | .03  | .02 |       | 7.86  |        |
| <i>The Southern Interior.</i>              |                 |               |      |      |      |      |      |      |     |     |     |      |     |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       |        |
| Belle Plain.....                           | Tuckahoe.....   | .65           | 1.06 | .71  |      | .16  | .08  | .38  |     |     | .02 |      |     | .12 |    |     |    |      | .03  |     | .12  | .40 |     |     |      |      | .34  |      |      | .13 |       | 4.20  |        |
| Bridgeton.....                             | Coast.....      | .57           | .98  | .25  |      | .15  | 1.13 | .35  |     |     | T.  | T.   |     |     |    |     |    | .08  |      | .21 | .47  | .08 |     | .10 |      |      | .28  | .08  |      |     | 4.73  |       |        |
| Burlington.....                            | Delaware.....   | .28           | .77  | .35  | .98  | T.   | .36  | .04  |     |     |     |      | .53 |     |    |     |    | .31  | .19  |     | T.   | *   | .22 |     | .32  | T.   | .02  |      |      |     | 4.37  |       |        |
| Camp Dix   .....                           | Delaware.....   | .58           | .47  | .44  |      | .91  | .05  |      |     | .03 |     | .22  |     | .01 |    |     | T. | .19  | .11  | .09 | .24  | .47 | .11 |     | .90  | .02  | .01  | .03  | .17  | .01 |       | 5.06  |        |
| Clayton.....                               | Maurice.....    |               |      |      |      |      |      |      |     |     |     |      |     |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       |        |
| Hammonton.....                             | Mullica.....    | .45           | 1.29 | .22  | .05  | .34  | .26  | .04  |     |     |     | .06  |     |     |    |     |    | .06  | .07  |     | T.   | .62 |     |     | .63  |      |      | .09  | .13  |     | 4.31  |       |        |
| Hightstown.....                            | Raritan.....    | .46           | .20  | .59  | .30  | .38  | .87  |      |     |     |     |      | .02 |     |    |     |    | .15  | .95  | .03 | .08  | .40 | .47 |     | 1.00 |      | .02  | .11  | .02  |     | 6.05  |       |        |
| Imlaystown.....                            | Delaware.....   | .22           | .27  | .75  | .20  | 50   | 1.00 |      |     |     |     |      | .14 |     |    |     |    | .09  | .26  |     | .37  | .75 | .23 | .03 | 1.30 | .02  | .02  | .05  | T.   |     | 6.20  |       |        |
| Indian Mills.....                          | Mullica.....    | .50           | .90  | .16  |      | .51  | .84  | .13  |     |     |     | .03  |     |     |    |     |    | .28  |      | .24 | .69  | .11 | T.  |     | .43  | T.   | .04  | .08  | .03  |     | 4.47  |       |        |
| Lakewood.....                              | Metedeconk..... | .50           | .22  | .20  | .04  | .02  | .82  |      |     |     | T.  |      | .16 |     |    |     |    | .04  | 1.72 |     | .10  | .33 | .17 |     | .85  |      | T.   | 6.05 | T.   |     | 11.22 |       |        |
| Moorestown.....                            | Delaware.....   | .33           | .96  | .90  |      | .63  | .09  | .02  |     |     |     | .06  |     |     |    |     |    | .10  | .05  | .26 |      |     | .01 |     | .94  |      | .20  |      | .08  |     | 4.87  |       |        |
| Northfield.....                            | Coast.....      | .48           | .76  | .02  |      |      | .35  | .18  |     | .03 |     |      |     |     |    |     |    | .01  | .03  | .26 | .06  | .06 | .37 |     | .34  |      | .02  |      |      |     | 2.97  |       |        |
| Pleasantville.....                         | Coast.....      | .55           | .82  | .01  |      | .80  | .35  | .25  |     |     | T.  |      |     |     |    |     |    | T.   | .79  | .87 | .09  | .20 | .10 |     | .27  |      | .02  | T.   |      |     | 5.12  |       |        |
| Trenton***.....                            | Delaware.....   | .12           | .61  | .88  | .02  | .14  | .98  | T.   |     |     | .03 | .03  |     |     |    | T.  | T. | .69  | .25  |     | .18  | .70 | .16 | T.  | .11  | .03  |      | .05  | T.   | T.  | 4.98  |       |        |
| Tuckerton.....                             | Coast.....      | .41           | .38  |      |      |      | .70  | .18  |     |     |     | .66  |     |     |    |     |    |      |      | .80 | .13  | .32 |     |     |      | .55  |      |      |      |     | 4.13  |       |        |
| Vineland.....                              | Maurice.....    | .03           | .80  | 1.84 | .06  | .36  | .21  | 1.21 |     | .26 |     | .01  |     |     |    |     |    | .09  | .03  |     | .17  | .24 |     |     |      | .30  |      |      | .16  |     | 5.77  |       |        |
| Philadelphia, Pa.....                      | Delaware.....   | .25           | .88  | 1.18 |      | .27  | .40  | .04  |     | .01 | T.  | T.   |     |     | T. |     |    | .21  | T.   |     | .47  | .58 | .01 |     | T.   |      | .15  | .08  | .03  |     | 4.56  |       |        |
| <i>The Sea Coast.</i>                      |                 |               |      |      |      |      |      |      |     |     |     |      |     |     |    |     |    |      |      |     |      |     |     |     |      |      |      |      |      |     |       |       |        |
| Asbury Park.....                           | Coast.....      | .44           | .45  | .08  |      | T.   | .44  | .04  |     | .01 |     | .04  |     |     |    |     |    | 1.22 | 1.07 |     | .68  | .12 | .11 |     | *    | 1.32 |      | .02  | .24  | T.  |       | 6.28  |        |
| Atlantic City***.....                      | do.....         | .85           | .52  | T.   |      | .01  | 1.28 | .28  | .01 |     | .01 |      |     |     |    |     |    | .01  | 1.53 |     | .18  | .30 | .07 |     | .11  | .27  |      | T.   | .03  |     | 5.46  |       |        |
| Cape May City.....                         | do.....         | 1.29          | .80  | .01  |      | .04  | .82  | .01  | .01 | .14 |     |      | .16 |     |    |     |    | .02  | .52  |     | .38  | .01 | .01 |     | .22  |      | .02  | .01  | .68  |     | 5.15  |       |        |
| Long Branch**.....                         | do.....         | .23           | .40  | .03  | .03  | .01  | .70  |      |     | T.  |     | T.   |     |     |    |     |    | .38  | .77  |     | .58  | .29 | .01 | .01 | 1.9  | 1.55 |      | .01  | .10  | .13 | 5.42  |       |        |
| Sandy Hook***.....                         | do.....         | .12           | .42  | .07  | .02  | .01  | 1.72 |      |     |     |     | .66  |     |     |    |     |    | .45  | .58  |     | 1.03 | .27 | .01 | T.  | .42  | 1.78 |      |      | T    |     | 8.98  |       |        |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

### MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                    |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                    |
| Atlantic City.....    | 29.98         | 30.17    | 5     | 29.56   | 11    | 16               | 45              | s.         | 17        | 82                                         | 84                                         | 56                                 |
| Cape May City.....    | 30.02         | 30.20    | 6     | 29.63   | 11    | 7                | 29              | nw.        | 11        | 85                                         | 85                                         | ....                               |
| Long Branch.....      | 29.96         | 30.15    | 5     | 29.54   | 11    | .....            | 44              | nw.        | 12        | 83                                         | 85                                         | 54                                 |
| Newark.....           |               |          |       |         |       |                  |                 |            |           | 73*                                        | 70†                                        | 48                                 |
| New York, N. Y.....   | 29.96         | 30.16    | 5     | 29.44   | 11    | 13               | 75              | nw.        | 11        | 77                                         | 75                                         | 63                                 |
| Philadelphia, Pa..... | 29.97         | 30.18    | 5     | 29.51   | 11    | 9                | 32              | nw.        | 11        | 72                                         | 68                                         | 50                                 |
| Ridgefield.....       |               |          |       |         |       |                  |                 |            |           |                                            |                                            |                                    |
| Sandy Hook.....       | 29.96         | 30.18    | 5     | 29.48   | 11    | 12               | 50              | w.         | 11        | 82                                         | 82                                         | 63                                 |
| Trenton.....          | 29.96         | 30.18    | 5     | 29.51   | 11    | 10               | 46              | nw.        | 21        | 77                                         | 75                                         | 57                                 |

\* 7 a. m.      † 9 p. m.



## Daily Temperatures for June, 1922.

| Stations.                            | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean. |      |
|--------------------------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|-------|------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |      |
| Belvidere.....                       | Maximum..... | 77 | 67 | 78 | 84 | 82 | 86 | 89 | 91 | 90 | 87 | 88 | 81 | 79 | 74 | 85 | 84 | 83 | 85 | 80 | 72 | 79 | 76 | 80 | 87 | 86 | 78 | 75 | 88 | 82 | 87   | 82.0  |      |
|                                      | Minimum..... | 66 | 63 | 62 | 59 | 60 | 66 | 62 | 61 | 68 | 66 | 67 | 65 | 64 | 47 | 50 | 51 | 62 | 66 | 54 | 60 | 64 | 57 | 58 | 49 | 65 | 53 | 58 | 64 | 68 | 61   | 60.4  |      |
| Charlotteburg.....                   | Maximum..... | 72 | 66 | 74 | 82 | 80 | 80 | 87 | 88 | 82 | 85 | 72 | 68 | 75 | 80 | 75 | 75 | 80 | 81 | 69 | 71 | 71 | 71 | 73 | 83 | 78 | 81 | 72 | 85 | 79 | 87   | 77.6  |      |
|                                      | Minimum..... | 49 | 60 | 60 | 52 | 52 | 64 | 59 | 51 | 61 | 63 | 60 | 61 | 43 | 46 | 41 | 44 | 61 | 58 | 63 | 62 | 57 | 55 | 45 | 65 | 49 | 49 | 58 | 63 | 60 | 55.9 |       |      |
| Dover.....                           | Maximum..... | 71 | 65 | 77 | 85 | 79 | 82 | 89 | 89 | 89 | 86 | 86 | 77 | 74 | 78 | 81 | 75 | 77 | 83 | 82 | 68 | 75 | 73 | 80 | 87 | 83 | 77 | 71 | 88 | 82 | 80   | 79.7  |      |
|                                      | Minimum..... | 54 | 61 | 62 | 58 | 58 | 65 | 63 | 59 | 69 | 65 | 66 | 58 | 46 | 53 | 49 | 60 | 64 | 57 | 65 | 72 | 78 | 58 | 57 | 63 | 53 | 55 | 63 | 68 | 64 | 60   | 59.6  |      |
| Layton.....                          | Maximum..... | 77 | 78 | 76 | 84 | 81 | 85 | 88 | 90 | 91 | 85 | 85 | 74 | 75 | 75 | 83 | 80 | 77 | 78 | 79 | 70 | 74 | 72 | 78 | 85 | 84 | 76 | 73 | 86 | 83 | 86   | 80.3  |      |
|                                      | Minimum..... | 60 | 66 | 63 | 52 | 54 | 63 | 54 | 55 | 63 | 64 | 67 | 57 | 44 | 49 | 46 | 46 | 64 | 66 | 55 | 62 | 64 | 58 | 58 | 45 | 63 | 48 | 52 | 63 | 65 | 60   | 57.5  |      |
| Newton.....                          | Maximum..... | 74 | 66 | 75 | 81 | 80 | 82 | 86 | 87 | 85 | 83 | 83 | 78 | 72 | 73 | 79 | 76 | 78 | 78 | 79 | 68 | 72 | 71 | 76 | 83 | 82 | 80 | 50 | 55 | 62 | 70   | 63    | 59.9 |
|                                      | Minimum..... | 55 | 61 | 62 | 58 | 59 | 65 | 62 | 65 | 62 | 65 | 65 | 55 | 48 | 53 | 49 | 60 | 60 | 59 | 62 | 63 | 59 | 58 | 52 | 68 | 50 | 55 | 62 | 70 | 63 | 79   | 88    | 87.2 |
| Phillipsburg.....                    | Maximum..... | 75 | 68 | 78 | 85 | 89 | 89 | 93 | 88 | 93 | 94 | 85 | 80 | 86 | 86 | 86 | 82 | 82 | 80 | 72 | 72 | 81 | 81 | 87 | 90 | 83 | 79 | 88 | 87 | 88 | 87   | 83.9  |      |
|                                      | Minimum..... | 61 | 64 | 60 | 58 | 60 | 67 | 64 | 61 | 68 | 71 | 73 | 61 | 50 | 56 | 50 | 52 | 63 | 63 | 52 | 63 | 66 | 60 | 60 | 52 | 55 | 61 | 66 | 68 | 63 | 61.0 |       |      |
| Sussex.....                          | Maximum..... | 80 | 69 | 79 | 86 | 84 | 88 | 89 | 91 | 88 | 86 | 86 | 75 | 74 | 79 | 84 | 83 | 80 | 79 | 85 | 80 | 79 | 78 | 78 | 88 | 85 | 80 | 79 | 88 | 89 | 88   | 89    | 82.1 |
|                                      | Minimum..... | 65 | 63 | 63 | 56 | 56 | 67 | 60 | 60 | 63 | 68 | 62 | 43 | 43 | 48 | 48 | 59 | 66 | 60 | 60 | 60 | 58 | 58 | 48 | 63 | 63 | 56 | 59 | 56 | 59 | 58.8 |       |      |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |      |
| Bergen Point.....                    | Maximum..... | 74 | 69 | 77 | 85 | 83 | 84 | 88 | 89 | 87 | 85 | 86 | 76 | 71 | 76 | 80 | 77 | 78 | 80 | 84 | 69 | 76 | 74 | 78 | 81 | 79 | 74 | 85 | 82 | 88 | 79.8 |       |      |
|                                      | Minimum..... | 51 | 59 | 61 | 57 | 56 | 67 | 64 | 57 | 65 | 63 | 65 | 65 | 50 | 51 | 46 | 50 | 57 | 64 | 58 | 65 | 63 | 60 | 60 | 52 | 52 | 54 | 50 | 60 | 65 | 61   | 58.6  |      |
| Boonton§§.....                       | Maximum..... | 75 | 70 | 83 | 87 | 83 | 83 | 90 | 92 | 91 | 88 | 91 | 80 | 75 | 78 | 83 | 77 | 80 | 85 | 86 | 72 | 77 | 77 | 81 | 88 | 84 | 80 | 76 | 88 | 83 | 90   | 82.5  |      |
|                                      | Minimum..... | 57 | 63 | 63 | 61 | 63 | 68 | 65 | 63 | 69 | 67 | 67 | 67 | 50 | 50 | 50 | 56 | 63 | 66 | 59 | 66 | 65 | 59 | 60 | 57 | 64 | 57 | 59 | 65 | 69 | 66   | 61.8  |      |
| Elizabeth.....                       | Maximum..... | 75 | 67 | 78 | 87 | 82 | 84 | 92 | 87 | 89 | 89 | 89 | 79 | 77 | 77 | 80 | 77 | 78 | 78 | 79 | 66 | 65 | 60 | 61 | 56 | 65 | 57 | 60 | 65 | 68 | 65   | 61.9  |      |
|                                      | Minimum..... | 56 | 62 | 63 | 60 | 63 | 69 | 65 | 63 | 69 | 69 | 70 | 65 | 50 | 56 | 50 | 53 | 61 | 67 | 59 | 66 | 65 | 60 | 61 | 56 | 65 | 57 | 60 | 65 | 68 | 65   | 61.9  |      |
| Flemington.....                      | Maximum..... | 71 | 69 | 77 | 85 | 80 | 79 | 87 | 89 | 89 | 88 | 88 | 76 | 73 | 73 | 79 | 75 | 76 | 78 | 78 | 71 | 69 | 71 | 78 | 81 | 81 | 76 | 71 | 82 | 81 | 86   | 78.6  |      |
|                                      | Minimum..... | 56 | 62 | 63 | 62 | 62 | 67 | 64 | 60 | 67 | 67 | 63 | 63 | 47 | 51 | 51 | 55 | 64 | 66 | 61 | 64 | 64 | 58 | 59 | 56 | 64 | 57 | 57 | 64 | 61 | 64   | 60.6  |      |
| Highwood.....                        | Maximum..... | 67 | 74 | 81 | 83 | 73 | 82 | 89 | 90 | 90 | 89 | 91 | 81 | 75 | 79 | 80 | 77 | 80 | 83 | 83 | 76 | 76 | 78 | 80 | 84 | 83 | 80 | 74 | 86 | 83 | 88   | 81.2  |      |
|                                      | Minimum..... | 61 | 68 | 62 | 68 | 66 | 67 | 68 | 68 | 72 | 73 | 63 | 63 | 53 | 58 | 58 | 61 | 65 | 65 | 63 | 66 | 65 | 62 | 62 | 63 | 64 | 60 | 63 | 66 | 69 | 70   | 64.6  |      |
| Jersey City.....                     | Maximum..... | 73 | 74 | 78 | 86 | 82 | 86 | 90 | 90 | 90 | 91 | 90 | 80 | 73 | 76 | 79 | 79 | 79 | 83 | 80 | 82 | 78 | 77 | 80 | 85 | 86 | 75 | 85 | 84 | 90 | 80   | 82.1  |      |
|                                      | Minimum..... | 59 | 62 | 62 | 62 | 62 | 68 | 67 | 67 | 72 | 71 | 64 | 64 | 51 | 57 | 56 | 65 | 65 | 67 | 63 | 65 | 65 | 63 | 65 | 60 | 65 | 64 | 61 | 65 | 68 | 70   | 63.9  |      |
| Kearny.....                          | Maximum..... | 71 | 66 | 78 | 84 | 84 | 85 | 86 | 87 | 88 | 88 | 86 | 76 | 71 | 73 | 82 | 80 | 82 | 84 | 82 | 81 | 79 | 73 | 78 | 85 | 85 | 78 | 73 | 86 | 83 | 88   | 80.1  |      |
|                                      | Minimum..... | 56 | 61 | 63 | 60 | 63 | 63 | 65 | 66 | 68 | 67 | 69 | 58 | 48 | 55 | 51 | 54 | 61 | 65 | 57 | 61 | 64 | 59 | 59 | 59 | 63 | 55 | 59 | 65 | 66 | 66   | 60.3  |      |
| Lambertville.....                    | Maximum..... | 73 | 72 | 80 | 87 | 83 | 83 | 91 | 91 | 90 | 87 | 89 | 77 | 73 | 78 | 81 | 77 | 80 | 82 | 82 | 69 | 71 | 75 | 79 | 87 | 83 | 80 | 76 | 87 | 83 | 90   | 81.2  |      |
|                                      | Minimum..... | 55 | 63 | 62 | 60 | 59 | 68 | 61 | 61 | 68 | 65 | 66 | 69 | 48 | 52 | 50 | 54 | 62 | 66 | 59 | 65 | 64 | 61 | 61 | 56 | 63 | 56 | 56 | 62 | 68 | 64   | 60.9  |      |
| Little Falls§§.....                  | Maximum..... | 73 | 70 | 73 | 86 | 80 | 81 | 91 | 92 | 89 | 87 | 89 | 79 | 72 | 76 | 81 | 73 | 78 | 80 | 82 | 69 | 74 | 74 | 78 | 84 | 82 | 78 | 73 | 84 | 83 | 90   | 80.0  |      |
|                                      | Minimum..... | 61 | 63 | 63 | 63 | 69 | 68 | 70 | 71 | 73 | 72 | 64 | 58 | 53 | 58 | 57 | 58 | 65 | 66 | 65 | 64 | 63 | 63 | 63 | 65 | 66 | 62 | 68 | 70 | 71 | 71   | 64.7  |      |
| Newark.....                          | Maximum..... | 73 | 68 | 80 | 83 | 83 | 82 | 87 | 86 | 87 | 86 | 89 | 83 | 76 | 78 | 78 | 79 | 81 | 81 | 79 | 79 | 79 | 74 | 76 | 88 | 83 | 82 | 70 | 84 | 80 | 87   | 80.6  |      |
|                                      | Minimum..... | 55 | 62 | 63 | 61 | 62 | 67 | 66 | 64 | 69 | 68 | 69 | 66 | 48 | 54 | 51 | 55 | 62 | 66 | 57 | 66 | 65 | 59 | 61 | 57 | 64 | 57 | 58 | 68 | 65 | 61.7 |       |      |
| New Brunswick.....                   | Maximum..... | 73 | 70 | 79 | 92 | 84 | 83 | 90 | 93 | 92 | 89 | 92 | 85 | 76 | 80 | 82 | 77 | 80 | 81 | 76 | 73 | 77 | 79 | 79 | 86 | 82 | 81 | 73 | 87 | 84 | 90   | 82.2  |      |
|                                      | Minimum..... | 57 | 64 | 63 | 60 | 63 | 68 | 66 | 66 | 70 | 69 | 61 | 66 | 50 | 56 | 54 | 56 | 64 | 65 | 61 | 65 | 64 | 59 | 60 | 59 | 64 | 57 | 59 | 62 | 70 | 67   | 62.2  |      |
| Plainfield.....                      | Maximum..... | 73 | 71 | 80 | 86 | 81 | 82 | 89 | 90 | 89 | 88 | 89 | 84 | 75 | 76 | 80 | 74 | 79 | 81 | 82 | 73 | 78 | 80 | 80 | 86 | 83 | 77 | 77 | 84 | 89 | 89   | 81.4  |      |
|                                      | Minimum..... | 50 | 61 | 62 | 59 | 59 | 66 | 63 | 60 | 67 | 65 | 65 | 62 | 43 | 50 | 46 | 60 | 60 | 64 | 57 | 65 | 64 | 60 | 59 | 52 | 62 | 57 | 56 | 64 | 65 | 62   | 59.5  |      |
| Ridgefield.....                      | Maximum..... | 73 | 69 | 76 | 86 | 81 | 79 | 88 | 89 | 88 | 86 | 88 | 76 | 71 | 78 | 74 | 77 | 81 | 79 | 70 | 73 | 74 | 77 | 82 | 83 | 77 | 72 | 85 | 84 | 84 | 79.3 |       |      |
|                                      | Minimum..... | 58 | 62 | 63 | 62 | 63 | 67 | 65 | 62 | 68 | 68 | 64 | 57 | 48 | 53 | 54 | 56 | 64 | 65 | 62 | 64 | 64 | 60 | 60 | 57 | 64 | 58 | 58 | 69 | 70 | 67   | 61.7  |      |
| Somerville.....                      | Maximum..... | 72 | 70 | 75 | 84 | 79 | 82 | 87 | 89 | 88 | 86 | 89 | 77 | 71 | 73 | 80 | 74 | 79 | 82 | 81 | 69 | 75 | 74 | 77 | 83 | 76 | 73 | 86 | 83 | 87 | 79.3 |       |      |
|                                      | Minimum..... | 56 | 63 | 63 | 65 | 68 | 68 | 65 | 66 | 70 | 66 | 59 | 50 | 56 | 52 | 57 | 64 | 66 | 62 | 66 | 64 | 61 | 60 | 58 | 60 | 58 | 59 | 66 | 70 | 67 | 67   | 62.5  |      |
| South Orange.....                    | Maximum..... | 72 | 69 | 74 | 81 | 76 | 77 | 87 | 87 | 85 | 86 | 86 | 76 | 70 | 74 | 76 | 70 | 77 | 77 | 82 | 69 | 71 | 73 | 75 | 80 | 76 | 69 | 82 | 79 | 86 | 77.4 | 78.4  |      |
|                                      | Minimum..... | 60 | 62 | 61 | 64 | 68 | 66 | 69 | 70 | 70 | 72 | 62 | 58 | 53 | 61 | 59 | 60 | 63 | 64 | 63 | 64 | 64 | 61 | 61 | 66 | 64 | 59 | 63 | 69 | 69 | 71   | 63.9  |      |
| The Southern Interior.               |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |      |
| Belle Plain.....                     | Maximum..... | 67 | 67 | 79 | 87 | 82 | 84 | 87 | 88 | 87 | 89 | 91 | 84 | 82 | 82 | 87 | 79 | 85 | 84 | 77 | 84 | 79 | 82 | 87 | 87 | 85 | 77 | 85 | 88 | 87 | 83.1 |       |      |
|                                      | Minimum..... | 56 | 62 | 63 | 64 | 61 | 62 | 65 | 59 | 64 | 64 | 71 | 67 | 39 | 54 | 41 | 52 | 64 | 64 | 59 | 63 | 65 | 59 | 61 | 49 | 63 | 63 | 56 | 69 | 65 | 67   | 60.4  |      |
| Bridgeton.....                       | Maximum..... | 76 | 69 | 80 | 85 | 82 | 86 | 87 | 90 | 89 | 91 | 92 | 80 | 75 | 73 | 82 | 87 | 80 | 88 | 84 | 75 | 85 | 80 | 88 | 91 | 83 | 81 | 88 | 87 | 90 | 83.5 |       |      |
|                                      | Minimum..... | 59 | 63 | 65 | 63 | 67 | 65 | 67 | 69 | 69 | 69 | 73 | 70 | 50 | 60 | 51 | 60 | 70 | 68 | 62 | 67 | 67 | 68 | 60 | 57 | 66 | 63 | 62 | 71 | 67 | 68   | 64.5  |      |
| Burlington.....                      | Maximum..... | 77 | 69 | 83 | 82 | 86 | 88 | 90 | 91 | 90 | 91 | 93 | 90 | 79 | 74 | 84 | 80 | 88 | 86 | 85 | 86 | 85 | 79 | 83 | 90 | 91 | 89 | 80 | 91 | 85 | 99   | 85.3  |      |
|                                      | Minimum..... | 57 | 63 | 64 | 62 | 64 | 66 | 64 | 63 | 68 | 70 | 68 | 52 | 58 | 50 | 60 | 51 | 65 | 59 | 59 | 66 | 60 | 61 | 52 | 64 | 59 | 61 | 70 | 68 | 81 | 61.6 |       |      |
| Camp Dix.....                        | Maximum..... | 75 | 66 | 82 | 84 | 84 | 83 | 87 | 86 | 85 | 86 | 89 | 77 | 70 | 79 | 74 | 79 | 83 | 82 | 81 | 81 | 76 | 77 | 86 | 86 | 79 | 88 | 86 | 88 | 82 | 82.3 |       |      |
|                                      | Minimum..... | 54 | 62 | 63 | 63 | 62 | 61 | 67 | 63 | 65 | 67 | 70 | 67 | 46 | 55 | 48 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |       |      |

<sup>a, b, c, etc.</sup>, indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA

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1922

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVII.

JULY, 1922.

No. 7.

### GENERAL SUMMARY.

The weather over the State, as a whole, during July, was much like that of June, except that it was a little warmer, although temperatures were not quite up to the monthly normal. Rainfall and cloudiness were slightly less than during June, and altogether it was a somewhat more favorable month for out-of-door pursuits. The warmest period was the 12th-13th, when temperatures were well up in the 90's over practically the entire State except the immediate ocean shore. The rainfall was very generously distributed as to quantity and frequency over all portions of the State, except that there was an appreciable deficiency along the Delaware River from Hunterdon County southward. In many northern and northeastern districts the excess of rain was a considerable detriment to crop growth and harvest of grass and grains. It rained very generally from the 1st to the 5th, 8th, 13th-14th, and 18th and 19th, over all portions of the State, on the 20th and 22d in the south, on the 24th-25th in the north, 27th in the south, and 28th in the north. The storm on the 1st was very heavy especially in northeastern districts, and cloudiness became so dense as to require artificial illumination during mid-day. The storms of the 13th and 18th were also severe in various localities. No storm warnings were displayed along the coast during the month.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 40 stations, was 73.0°, which was 0.7° below normal. The highest temperature was 98° at Sussex on the 12th, and the lowest, 44° at Layton on the 30th. The highest monthly mean temperature was 76.0° at Bridgeton and Burlington, and the lowest, 68.6° at Charlotteburg. The greatest daily range of temperature was 40° at Sussex on the 30th. The temperature departure for the year 1922 to date, by sections, is: The Highlands, +1.5°; Red Sandstone Plain, +1.1°; Southern Interior, +1.7°; Sea Coast, +1.7°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations at 46 stations was 5.79 inches, which was 1.00 above normal. The greatest monthly rainfall was 9.26 inches at Plainfield, and the least, 2.29 inches at Trenton. The greatest amount of rain in any 24 consecutive hours was 3.50 inches at Vineland on the 14th. The mean of the number of days on which 0.01 inch or more of rain fell was 13, or 3 more than the normal. The precipitation accumulated departure from normal for the year 1922 to date, by sections, is: The Highlands, +1.37 inches; Red Sandstone Plain, +4.23 inches; Southern Interior, -0.58 inches; Sea Coast, +0.39 inch.

### WIND.

The prevailing wind direction was from the south, with an

approximate velocity of 11 miles per hour, which was about one mile above normal. The highest velocity, sustained for 5 consecutive minutes, was 59 miles per hour from the south on the 18th at Sandy Hook.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than normal; partly cloudy, 9, or 3 less than normal; cloudy, 9, or 2 more than normal. The approximate percentage of possible sunshine was 61, which was 2 below normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 3.0 feet, and the highest stage, 7.0 feet on the 4th. At Trenton the mean stage was 1.7 feet, which was 0.4 feet above normal. The highest stage, 4.3 feet, occurred on the 4th.

Thunderstorms occurred in some portions of the State on the 1st, 2d, 3d, 4th, 5th, 8th, 12th, 13th, 14th, 17th, 18th, 19th, 20th, 22d, 23d, 24th, 27th, 28th, 29th, and 31st.

Haze was noted daily from the 6th to the 10th, and from the 12th to the 23d.

Solar halos were observed on the 15th, 19th, and 23d. Hail occurred as follows: 13th, severe damage at Ridgefield; 28th, slight damage at Dover, Layton, Sussex, Newark, and South Orange; severe damage at Chatham.

The mean atmospheric pressure, reduced to sea level, was 30.03 inches, which was 0.05 inch above the normal. The highest reading was 30.26 inches on the 16th, and 26th, and the lowest 29.69 on the 3d.

### COMPARATIVE DATA FOR JULY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 75.2         | 100      | 44      | 3.50           | 7.28      | 1.29   | .....        | .....          | .....   | .....                  |
| 1886..... | 73.0         | 98       | 48      | 4.91           | 7.95      | 2.98   | .....        | .....          | .....   | .....                  |
| 1887..... | 77.1         | 102      | 54      | 7.67           | 15.29     | 1.95   | .....        | .....          | .....   | 11                     |
| 1888..... | 71.1         | 95       | 45      | 3.50           | 7.03      | 1.25   | .....        | .....          | .....   | 9                      |
| 1889..... | 73.4         | 95       | 48      | 10.19          | 18.58     | 4.66   | .....        | .....          | .....   | 13                     |
| 1890..... | 72.5         | 101      | 39      | 5.62           | 7.55      | 3.60   | 12           | 11             | 8       | 9                      |
| 1891..... | 70.1         | 95       | 43      | 5.30           | 9.41      | 3.03   | 10           | 11             | 10      | 12                     |
| 1892..... | 74.3         | 105      | 44      | 4.03           | 7.96      | 2.38   | 12           | 14             | 5       | 8                      |
| 1893..... | 73.9         | 102      | 40      | 2.72           | 4.63      | 1.26   | 14           | 13             | 4       | 8                      |
| 1894..... | 75.7         | 106      | 44      | 1.66           | 5.00      | 0.15   | 14           | 12             | 5       | 6                      |
| 1895..... | 70.9         | 99       | 41      | 4.26           | 7.73      | 1.53   | 12           | 12             | 7       | 10                     |
| 1896..... | 75.0         | 98       | 47      | 5.50           | 13.29     | 2.45   | 13           | 10             | 8       | 13                     |
| 1897..... | 74.1         | 102      | 50      | 11.42          | 20.80     | 6.11   | 10           | 11             | 10      | 15                     |
| 1898..... | 75.3         | 107      | 38      | 4.96           | 11.72     | 2.23   | 11           | 13             | 7       | 10                     |
| 1899..... | 74.7         | 98       | 38      | 5.75           | 9.02      | 3.34   | 13           | 11             | 7       | 11                     |
| 1900..... | 75.9         | 104      | 42      | 4.74           | 7.21      | 1.11   | 15           | 12             | 4       | 11                     |
| 1901..... | 77.3         | 107      | 45      | 5.87           | 10.92     | 1.89   | 9            | 13             | 9       | 14                     |
| 1902..... | 73.0         | 100      | 43      | 4.78           | 9.92      | 1.83   | 10           | 12             | 9       | 13                     |
| 1903..... | 73.3         | 100      | 38      | 5.51           | 10.14     | 3.08   | 16           | 10             | 5       | 12                     |
| 1904..... | 72.3         | 98       | 42      | 4.87           | 8.06      | 2.41   | 13           | 10             | 8       | 13                     |
| 1905..... | 74.4         | 102      | 42      | 4.06           | 8.19      | 1.67   | 12           | 13             | 6       | 12                     |
| 1906..... | 72.8         | 94       | 46      | 5.58           | 13.25     | 3.44   | 11           | 14             | 6       | 12                     |
| 1907..... | 73.6         | 96       | 40      | 2.62           | 6.42      | 0.95   | 8            | 12             | 11      | 8                      |
| 1908..... | 75.6         | 106      | 42      | 4.70           | 8.12      | 1.97   | 12           | 13             | 6       | 9                      |
| 1909..... | 71.6         | 99       | 36      | 2.12           | 4.03      | 1.03   | 14           | 14             | 3       | 5                      |
| 1910..... | 75.3         | 99       | 42      | 1.36           | 5.33      | 0.22   | 12           | 12             | 7       | 5                      |
| 1911..... | 76.0         | 104      | 42      | 3.64           | 6.46      | 2.06   | 12           | 12             | 7       | 8                      |
| 1912..... | 73.7         | 100      | 36      | 3.86           | 9.91      | 1.01   | 14           | 10             | 7       | 9                      |
| 1913..... | 74.4         | 100      | 41      | 2.52           | 4.72      | 1.50   | 20           | 9              | 2       | 8                      |
| 1914..... | 71.5         | 97       | 40      | 6.05           | 8.57      | 1.94   | 9            | 11             | 11      | 15                     |
| 1915..... | 72.8         | 98       | 44      | 5.31           | 11.06     | 2.23   | 10           | 13             | 8       | 14                     |
| 1916..... | 74.4         | 97       | 45      | 5.40           | 9.01      | 3.15   | 11           | 9              | 11      | 12                     |
| 1917..... | 74.2         | 104      | 46      | 4.83           | 7.93      | 2.38   | 10           | 11             | 10      | 12                     |
| 1918..... | 72.2         | 104      | 39      | 3.93           | 13.60     | 1.20   | 17           | 9              | 5       | 8                      |
| 1919..... | 73.5         | 103      | 43      | 8.39           | 14.14     | 4.45   | 14           | 7              | 10      | 14                     |
| 1920..... | 71.7         | 96       | 42      | 5.76           | 16.25     | 1.20   | 17           | 10             | 4       | 11                     |
| 1921..... | 76.5         | 99       | 43      | 3.62           | 7.36      | 1.66   | 14           | 9              | 8       | 10                     |
| 1922..... | 73.0         | 98       | 44      | 5.79           | 9.26      | 2.29   | 13           | 9              | 8       | 13                     |



## Climatological Data for July, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       |                       | Precipitation, in inches. |                            |                       |                            | No. of days.               |        |             |         | Prevailing direction of wind. | Observers.                                                                                                               |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|-----------------------|---------------------------|----------------------------|-----------------------|----------------------------|----------------------------|--------|-------------|---------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total.                    | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation in. or more. | Clear. | Pt. cloudy. | Cloudy. |                               |                                                                                                                          |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                            |        |             |         |                               |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 72.6                          | -0.6                       | 93       | 12†   | 53      | 30    | 33                    | 5.94                      | +0.96                      | 2.33                  | 0                          | 9                          | 20     | 7           | 4       | .....                         | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 68.6                          | -1.4                       | 92       | 12    | 47      | 7†    | 39                    | 4.84                      | +0.01                      | 1.44                  | 0                          | 10                         | 19     | 4           | 8       | w.                            |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | 50      | 30    | .....                 | 5.90                      | +1.33                      | 2.63                  | 0                          | 13                         | 14     | 8           | 9       | n.                            |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600              | 38                       | 71.3                          | -0.1                       | 93       | 12    | 51      | 30    | 34                    | 7.00                      | +1.73                      | 2.36                  | 0                          | 11                         | 11     | 11          | 9       | .....                         |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 70.6                          | -0.3                       | 93       | 12    | 44      | 30    | 39                    | 5.36                      | +1.27                      | 2.03                  | 0                          | 13                         | 12     | 8           | 11      | se.                           | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 70.8 <sup>a</sup>             | -1.7                       | 91       | 12†   | 52      | 30    | 35                    | 5.00                      | +0.04                      | 1.11                  | 0                          | 13                         | 14     | 4           | 13      | sw.                           |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 75.2 <sup>b</sup>             | +1.1                       | 97       | 13    | 54      | 16†   | 35                    | 4.41                      | -0.44                      | 2.62                  | 0                          | 9                          | 22     | 2           | 7       | .....                         |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 72.2 <sup>b</sup>             | +0.1                       | 98       | 12    | 45      | 30    | 40                    | 5.49                      | +1.09                      | 1.50                  | 0                          | 9                          | 12     | 9           | 10      | sw.                           |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 71.6                          | -0.4                       | 98       | 12    | 44      | 30    | 40                    | 5.49                      | +0.75                      | 2.63                  | 0                          | 11                         | 15     | 7           | 9       | sw.                           |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                            |        |             |         |                               |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37               | 25                       | 74.4 <sup>b</sup>             | +0.4                       | 94       | 12†   | 59      | 5†    | 29                    | .....                     | .....                      | .....                 | 0                          | 16                         | .....  | .....       | .....   | sw.                           | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400              | 32                       | 70.1                          | -2.4                       | 91       | 12    | 49      | 30    | 33                    | 6.48                      | +1.58                      | 2.76                  | 0                          | 11                         | 16     | 5           | 10      | ne.                           |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 8.93                      | +4.49                      | 2.44                  | 0                          | 9                          | 23     | 6           | 2       | .....                         |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 73.9                          | -1.4                       | 95       | 13    | 54      | 30    | 32                    | 9.04                      | +3.88                      | 1.74                  | 0                          | 14                         | 15     | 12          | 4       | s.                            |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 73.8                          | -0.8                       | 95       | 12    | 54      | 16    | 31                    | 5.61                      | +0.39                      | 1.22                  | 0                          | 12                         | 14     | 9           | 8       | sw.                           | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Chandler, M. D.                                     |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 71.4                          | -0.9                       | 89       | 18    | 51      | 30    | 31                    | 7.01                      | +2.06                      | 2.56                  | 0                          | 15                         | 11     | 10          | 10      | sw.                           |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 75.2                          | -0.9                       | 94       | 13    | 58      | 6     | 26                    | 7.32                      | +2.88                      | 2.00                  | 0                          | 12                         | 8      | 15          | 8       | s.                            |                                                                                                                          |
| Kearny.....                                 | Hudson.....     | 100              | 3                        | 74.4                          | .....                      | 92       | 13    | 58      | 30    | 29                    | 6.32                      | .....                      | 2.42                  | 0                          | 9                          | 7      | 16          | 8       | s.                            |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 72.6                          | -1.7                       | 94       | 12    | 55      | 6     | 29                    | 3.43                      | -1.39                      | 0.67                  | 0                          | 14                         | 10     | 12          | 9       | w.                            | Wm. J. Lauderdale.<br>Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.                          |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 72.8                          | -1.0                       | 96       | 12    | 52      | 30    | 33                    | 6.75                      | +2.36                      | .....                 | 0                          | 14                         | 11     | 11          | 9       | nw.                           |                                                                                                                          |
| Newark.....                                 | Essex.....      | 159              | 80                       | 73.4                          | -1.2                       | 92       | 12†   | 59      | 5     | 24                    | 7.53                      | +2.72                      | 2.41                  | 0                          | 12                         | 7      | 18          | 6       | sw.                           |                                                                                                                          |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 72.9                          | -1.1                       | 96       | 13    | 53      | 5     | 29                    | 6.28                      | +1.24                      | 1.07                  | 0                          | 13                         | 12     | 10          | 9       | w.                            |                                                                                                                          |
| New Milford††.....                          | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 5.56                      | .....                      | 1.70                  | 0                          | 12                         | .....  | .....       | .....   | .....                         | Hackensack Water Co.<br>Marion T. Probert.<br>E. D. Pearson.<br>George P. Kirsten.                                       |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 74.1                          | -0.3                       | 95       | 12    | 55      | 30    | 30                    | 5.40                      | +0.38                      | 2.43                  | 0                          | 14                         | 6      | 2           | 23      | s.                            |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120              | 34                       | 71.6                          | -2.4                       | 93       | 12    | 52      | 16†   | 33                    | 9.26                      | +3.43                      | 2.02                  | 0                          | 14                         | 11     | 14          | 6       | s.                            |                                                                                                                          |
| Ridgefield††.....                           | Bergen.....     | 70               | 7                        | 72.2                          | .....                      | 92       | 13    | 54      | 30    | 29                    | 6.77                      | .....                      | 2.18                  | 0                          | 13                         | 9      | 14          | 8       | s.                            |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70               | 39                       | 74.0                          | -0.1                       | 95       | 12    | 52      | 30    | 36                    | 6.33                      | +1.22                      | 1.48                  | 0                          | 15                         | 14     | 8           | 9       | w.                            | H. B. TenEyck.<br>Wm. H. Meeder.<br>Hackensack Water Co.<br>U. S. Weather Bureau.                                        |
| South Orange.....                           | Essex.....      | 200              | 52                       | 72.2                          | -1.0                       | 91       | 12    | 56      | 30    | 26                    | 5.70                      | +0.69                      | 2.23                  | 0                          | 12                         | 24     | 2           | 5       | w.                            |                                                                                                                          |
| Woodcliff Lake†.....                        | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 7.75                      | .....                      | 2.45                  | 0                          | 14                         | .....  | .....       | .....   | .....                         |                                                                                                                          |
| New York, N. Y.....                         | .....           | 365              | 52                       | 72.7                          | -0.8                       | 91       | 13    | 59      | 5     | 22                    | 6.55                      | +2.01                      | 2.47                  | 0                          | 13                         | 7      | 11          | 13      | s.                            |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 73.1                          | -1.1                       | 96       | 12†   | 49      | 30    | 36                    | 6.75                      | +1.85                      | 2.76                  | 0                          | 12                         | 12     | 10          | 9       | s.                            |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                            |        |             |         |                               |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 73.1                          | -0.7                       | 93       | 12†   | 51      | 6†    | 37                    | 6.55                      | +2.44                      | 1.49                  | 0                          | 11                         | 20     | 3           | 8       | s.                            | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 76.0                          | -0.7                       | 97       | 12    | 57      | 16    | 28                    | 3.73                      | -0.76                      | 0.80                  | 0                          | 10                         | 17     | 9           | 5       | ne.                           |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 76.0                          | +1.2                       | 97       | 12    | 54      | 16    | 34                    | 4.59                      | -0.24                      | 2.04                  | 0                          | 11                         | 21     | 3           | 7       | ne.                           |                                                                                                                          |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 73.6                          | .....                      | 95       | 12    | 53      | 16    | 30                    | 7.41                      | .....                      | 2.18                  | 0                          | 17                         | 3      | 4           | 24      | ne.                           |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130              | 29                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                     | .....                      | .....                 | 0                          | 13                         | 13     | 12          | 6       | s.                            | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.                                                         |
| Hammononton.....                            | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 6.57                      | +1.86                      | 1.73                  | 0                          | 13                         | 13     | 12          | 6       | s.                            |                                                                                                                          |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 72.1                          | -2.3                       | 93       | 12†   | 53      | 6†    | 32                    | 4.91                      | -0.08                      | 1.35                  | 0                          | 12                         | 15     | 7           | 9       | sw.                           |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 73.5 <sup>a</sup>             | -1.2                       | 96       | 12    | 51      | 6     | 35 <sup>b</sup>       | 3.62                      | -1.14                      | .....                 | 0                          | 12                         | .....  | .....       | .....   | .....                         |                                                                                                                          |
| Indian Mills†.....                          | Burlington..... | 76               | 33                       | 73.6                          | -1.1                       | 97       | 12    | 51      | 16    | 33                    | 6.33                      | +1.67                      | 0.98                  | 0                          | 14                         | 6      | 15          | 10      | sw.                           | James M. Armstrong.<br>R. W. Holman.<br>Julius Bernstein.<br>Stokes Seed Farms Co.<br>William L. Flick.                  |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 72.8                          | 0.0                        | 93       | 18    | 52      | 16    | 31                    | 4.35                      | -0.50                      | 0.85                  | 0                          | 14                         | 13     | 9           | 9       | sw.                           |                                                                                                                          |
| Lumberton.....                              | Burlington..... | .....            | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 4.90                      | .....                      | .....                 | 0                          | 11                         | 13     | 12          | 6       | s.                            |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75               | 59                       | 74.4 <sup>b</sup>             | -0.3                       | 95       | 12    | 52      | 7†    | 34                    | 2.40                      | -2.28                      | 0.83                  | 0                          | 11                         | 13     | 12          | 6       | s.                            |                                                                                                                          |
| Northfield.....                             | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | 5.85                      | +2.25                      | 2.15                  | 0                          | 12                         | .....  | .....       | .....   | .....                         |                                                                                                                          |
| Pleasantville†.....                         | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                 | .....                     | .....                      | .....                 | 0                          | 13                         | .....  | .....       | .....   | .....                         |                                                                                                                          |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 73.4                          | -1.1                       | 94       | 12    | 58      | 5     | 26                    | 2.29                      | -2.48                      | 0.89                  | 0                          | 13                         | 6      | 11          | 14      | sw.                           | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 74.0 <sup>b</sup>             | -0.1                       | 95       | 13†   | 54      | 16    | 31                    | 4.36                      | +0.48                      | 1.40                  | 0                          | 14                         | 12     | 12          | 7       | se.                           |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 75.8 <sup>a</sup>             | -0.6                       | 96       | 12†   | 55      | 6     | 31                    | 9.21                      | +4.64                      | 3.50                  | 0                          | 9                          | 19     | 10          | 2       | sw.                           |                                                                                                                          |
| Philadelphia, Pa.....                       | .....           | 117              | 52                       | 75.5                          | -0.3                       | 94       | 12    | 58      | 5     | 24                    | 2.42                      | -1.91                      | 0.67                  | 0                          | 10                         | 5      | 14          | 12      | sw.                           |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 74.0                          | -0.6                       | 97       | 12    | 51      | 6†    | 37                    | 5.14                      | +0.45                      | 3.50                  | 0                          | 12                         | 13     | 9           | 9       | sw.                           |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                       |                           |                            |                       |                            |                            |        |             |         |                               |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 72.4                          | 0.0                        | 90       | 22    | 59      | 6†    | 23                    | 3.23                      | -1.31                      | 0.62                  | 0                          | 13                         | 8      | 10          | 13      | ne.                           | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 72.2                          | +0.1                       | 86       | 29    | 58      | 6     | 20                    | 5.03                      | +1.25                      | 1.82                  | 0                          | 15                         | 13     | 7           | 11      | s.                            |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17               | 38                       | 73.0                          | -0.4                       | 88       | 24    | 59      | 6     | 21                    | 6.06                      | +2.28                      | 1.52                  | 0                          | 14                         | 10     | 9           | 12      | s.                            |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 71.8                          | -0.3                       | 89       | 23    | 58      | 16    | 20                    | 4.35                      | -0.57                      | 1.19                  | 0                          | 17                         | 10     | 11          | 10      | s.                            |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 72.7                          | -1.0                       | 88       | 18    | 60      | 5     | 20                    | 5.36                      | +0.57                      | 2.20                  | 0                          | 15                         | 7      | 16          | 8       | s.                            |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 72.4                          | -0.3                       | 90       | 22    | 58      | 6†    | 23                    | 4.80                      | +0.44                      | 2.20                  | 0                          | 15                         | 10     | 10          | 11      | s.                            |                                                                                                                          |
| For the State.....                          |                 |                  |                          | 73.0                          | -0.7                       | 98       | 12    | 44      | 30    | 40                    | 5.79                      | +1.00                      | 3.50                  | 0                          | 13                         | 13     | 9           | 9       | s.                            |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliff are Weehawken.



## Daily Precipitation for July, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |       |       |       |       |       |       |       |       | Total. |
|--------------------------------------------|-----------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
|                                            |                 | 1             | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21      | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |       |       |       |       |       |       |       |       |        |
| Belvidere.....                             | Delaware.....   | 2.33          | .34   | .94   | ....  | .37   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .24   | ..... | ..... | ..... | .50   | .13   | ..... | .....   | ..... | ..... | .72   | ..... | ..... | ..... | .37   | ..... | ..... | 5.94  |        |
| Charlotteburg.....                         | Passaic.....    | .90           | .22   | .22   | .93   | .49   | ..... | ..... | .19   | ..... | ..... | ..... | ..... | ..... | .35   | ..... | ..... | ..... | 1.44  | ..... | ..... | .....   | ..... | ..... | .07   | ..... | ..... | ..... | .03   | ..... | ..... | 4.84  |        |
| Culvers Lake.....                          | Delaware.....   | 2.63          | 1.43  | .20   | .05   | .22   | ..... | ..... | .08   | .21   | ..... | ..... | ..... | ..... | .02   | ..... | ..... | ..... | .65   | .29   | ..... | .....   | ..... | T.    | .02   | ..... | .01   | .09   | ..... | ..... | 5.90  |       |        |
| Dover.....                                 | Passaic.....    | 2.36          | .09   | .80   | *     | .55   | ..... | ..... | .53   | ..... | ..... | ..... | ..... | ..... | .08   | ..... | ..... | ..... | 1.30  | ..... | ..... | .....   | ..... | ..... | .40   | .04   | ..... | .85   | ..... | ..... | 7.00  |       |        |
| Layton.....                                | Delaware.....   | 1.70          | 2.03  | .21   | .03   | .26   | ..... | ..... | .28   | ..... | ..... | .10   | ..... | ..... | ..... | ..... | ..... | ..... | .03   | .07   | ..... | .....   | T.    | .02   | .05   | ..... | .42   | ..... | ..... | .16   | 5.36  |       |        |
| Newton.....                                | Delaware.....   | 1.11          | T.    | .96   | .06   | .42   | .01   | ..... | .11   | .78   | .02   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .26   | .83   | T.    | .....   | ..... | ..... | .31   | .06   | ..... | T.    | .07   | ..... | 5.00  |       |        |
| Phillipsburg.....                          | do.....         | 2.62          | .03   | .85   | ..... | .24   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .15   | ..... | ..... | ..... | ..... | .14   | ..... | .....   | ..... | ..... | .05   | .31   | ..... | .02   | ..... | ..... | 4.41  |       |        |
| Sussex.....                                | Hudson.....     | 1.50          | 1.16  | .10   | 1.10  | .28   | ..... | ..... | .08   | ..... | ..... | ..... | ..... | ..... | T.    | ..... | ..... | ..... | .67   | ..... | ..... | .....   | ..... | ..... | ..... | .10   | ..... | T.    | .50   | ..... | 5.49  |       |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |       |       |       |       |       |       |       |       |        |
| Bergen Point.....                          | Coast.....      | 1.61          | .24   | .65   | .55   | .57   | ..... | ..... | \$    | ..... | ..... | ..... | ..... | .41   | ..... | .02   | .21   | ..... | 1.40  | .16   | ..... | .....   | ..... | .07   | .66   | .38   | ..... | T.    | .13   | ..... | .21   | \$    |        |
| Boonton   .....                            | Passaic.....    | 2.76          | .05   | 1.12  | .51   | .02   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .12   | ..... | ..... | ..... | ..... | .96   | .03   | ..... | .....   | ..... | ..... | T.    | .57   | T.    | ..... | .28   | ..... | ..... | 6.48  |        |
| Chatham  .....                             | do.....         | .....         | 2.44  | ..... | 1.49  | .68   | .07   | ..... | ..... | .11   | ..... | ..... | ..... | ..... | 1.21  | ..... | ..... | ..... | .48   | ..... | ..... | .....   | ..... | ..... | ..... | 1.76  | ..... | ..... | ..... | .69   | ..... | 8.93  |        |
| Elizabeth.....                             | Coast.....      | 1.74          | *     | 1.38  | 1.55  | 1.01  | ..... | ..... | .87   | ..... | ..... | ..... | ..... | .21   | .25   | ..... | ..... | T.    | .65   | ..... | ..... | .....   | ..... | .02   | .41   | .66   | ..... | .04   | ..... | .25   | ..... | 9.04  |        |
| Flemington.....                            | Raritan.....    | 1.22          | .71   | 1.00  | .06   | .62   | ..... | T.    | T.    | ..... | ..... | ..... | 1.10  | .41   | ..... | ..... | ..... | ..... | .22   | .04   | ..... | .....   | .06   | ..... | .10   | .07   | ..... | T.    | ..... | ..... | 5.61  |       |        |
| Highwood.....                              | Hackensack..... | 2.46          | .10   | .43   | .45   | .68   | ..... | .04   | ..... | ..... | ..... | ..... | ..... | .48   | .08   | T.    | ..... | ..... | *     | 1.43  | ..... | .....   | .20   | .07   | T.    | .18   | ..... | T.    | .12   | ..... | .29   | 7.01  |        |
| Jersey City.....                           | Coast.....      | 2.00          | .30   | T.    | 1.05  | .56   | ..... | .45   | ..... | ..... | ..... | ..... | .11   | ..... | .03   | ..... | ..... | ..... | 1.80  | .29   | T.    | .....   | T.    | ..... | .25   | .08   | ..... | ..... | .40   | ..... | T.    | 7.32  |        |
| Kearny.....                                | Coast.....      | 2.42          | ..... | .40   | .55   | ..... | ..... | .61   | ..... | ..... | ..... | ..... | 1.06  | ..... | ..... | ..... | ..... | ..... | .40   | ..... | ..... | .....   | ..... | ..... | .56   | ..... | T.    | ..... | .20   | ..... | .12   | 6.32  |        |
| Lambertville.....                          | Delaware.....   | .67           | .24   | .32   | .14   | .65   | ..... | .34   | .17   | ..... | ..... | ..... | .08   | .10   | ..... | ..... | ..... | ..... | .09   | .37   | ..... | .....   | .18   | .04   | T.    | .04   | ..... | ..... | ..... | ..... | 3.43  |       |        |
| Little Falls,   .....                      | Passaic.....    | *             | 2.75  | .04   | 1.25  | .63   | .06   | .05   | ..... | ..... | ..... | ..... | *     | .38   | ..... | ..... | ..... | ..... | *     | .43   | ..... | .....   | ..... | *     | .04   | .92   | ..... | ..... | .20   | ..... | ..... | 6.75  |        |
| Newark**.....                              | Coast.....      | 2.41          | .25   | 1.09  | .49   | .17   | ..... | .18   | ..... | ..... | ..... | ..... | 1.22  | T.    | ..... | ..... | ..... | ..... | .53   | .07   | ..... | .....   | .19   | .41   | T.    | ..... | .52   | ..... | ..... | ..... | 7.53  |       |        |
| New Brunswick.....                         | Raritan.....    | .44           | .36   | ..... | .35   | .77   | ..... | .26   | .01   | ..... | ..... | ..... | 1.07  | .04   | ..... | T.    | ..... | ..... | .95   | .24   | ..... | .....   | ..... | ..... | .80   | .91   | ..... | .08   | ..... | ..... | 6.28  |       |        |
| New Milford.....                           | Hackensack..... | 1.70          | .04   | .63   | .29   | .48   | ..... | ..... | ..... | ..... | ..... | ..... | .54   | .20   | ..... | ..... | ..... | ..... | .96   | ..... | ..... | .....   | ..... | .28   | .36   | ..... | ..... | .08   | ..... | .01   | ..... | 5.56  |        |
| Paterson.....                              | Passaic.....    | 2.43          | .23   | .08   | .66   | .60   | ..... | .05   | ..... | ..... | ..... | ..... | T.    | .25   | ..... | T.    | ..... | *     | .61   | .01   | ..... | T.      | ..... | .19   | .19   | ..... | T.    | .05   | ..... | .05   | 5.40  |       |        |
| Plainfield.....                            | Raritan.....    | 1.18          | .09   | 2.02  | .14   | .57   | ..... | 1.44  | ..... | ..... | ..... | ..... | .41   | .04   | T.    | T.    | ..... | 1.32  | .14   | ..... | .30   | T.      | 1.41  | .09   | ..... | T.    | .11   | ..... | T.    | ..... | 9.26  |       |        |
| Ridgefield**.....                          | Hackensack..... | *             | 2.18  | .77   | ..... | .68   | ..... | .07   | ..... | ..... | ..... | ..... | 1.94  | .02   | .02   | ..... | ..... | *     | .50   | ..... | ..... | .....   | ..... | .02   | *     | .35   | ..... | T.    | .12   | ..... | .10   | 6.77  |        |
| Somerville.....                            | Raritan.....    | .63           | .30   | .90   | .66   | .58   | ..... | .01   | ..... | ..... | ..... | ..... | .36   | .07   | ..... | ..... | ..... | ..... | .63   | .43   | ..... | .....   | .01   | 1.28  | .20   | ..... | .03   | ..... | .24   | 6.33  |       |       |        |
| South Orange.....                          | Rahway.....     | 2.23          | .10   | 1.03  | .25   | .50   | ..... | .09   | ..... | ..... | ..... | ..... | .17   | T.    | ..... | ..... | ..... | ..... | .40   | .05   | ..... | .....   | ..... | ..... | .43   | .05   | ..... | T.    | .40   | ..... | 5.70  |       |        |
| Woodcliff Lake.....                        | Hackensack..... | 1.09          | .39   | .84   | .15   | .36   | ..... | .09   | ..... | ..... | ..... | ..... | .29   | .24   | ..... | ..... | ..... | ..... | .83   | .21   | ..... | .....   | .50   | ..... | 2.45  | ..... | ..... | .16   | ..... | .15   | 7.75  |       |        |
| New York, N. Y***                          | Coast.....      | 1.82          | .01   | .52   | .10   | .50   | ..... | .46   | ..... | ..... | ..... | ..... | .24   | ..... | .01   | ..... | ..... | ..... | 2.47  | T.    | T.    | .....   | T.    | .06   | .22   | T.    | ..... | .01   | .13   | ..... | T.    | 6.55  |        |
| <i>The Southern Interior.</i>              |                 |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |       |       |       |       |       |       |       |       |        |
| Belle Plain.....                           | Tuckahoe.....   | .....         | .70   | 1.31  | 1.49  | .83   | .03   | ..... | .22   | ..... | ..... | ..... | ..... | .36   | ..... | ..... | ..... | ..... | .40   | .80   | .16   | .....   | ..... | ..... | ..... | ..... | ..... | .25   | ..... | ..... | ..... | 6.55  |        |
| Bridgeton.....                             | Coast.....      | .20           | .50   | .80   | .75   | .20   | ..... | T.    | ..... | ..... | ..... | ..... | .50   | ..... | ..... | ..... | ..... | ..... | .22   | ..... | .41   | .....   | ..... | ..... | ..... | ..... | ..... | .05   | ..... | ..... | ..... | 3.73  |        |
| Burlington.....                            | Delaware.....   | 2.04          | .48   | .15   | .15   | .61   | ..... | T.    | .16   | ..... | ..... | ..... | ..... | .10   | ..... | ..... | ..... | *     | .05   | ..... | ..... | .76     | ..... | ..... | .09   | ..... | ..... | ..... | ..... | ..... | 4.59  |       |        |
| Camp Dix   .....                           | Delaware.....   | 2.18          | .17   | .50   | .63   | .18   | ..... | .09   | ..... | ..... | ..... | ..... | .65   | 1.60  | .03   | ..... | ..... | ..... | .04   | .02   | .22   | .....   | T.    | .03   | .30   | ..... | .01   | .73   | .03   | ..... | 7.41  |       |        |
| Clayton.....                               | Maurice.....    | .....         | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |        |
| Hammononton.....                           | Mullica.....    | *             | 1.73  | .11   | .37   | 1.35  | ..... | ..... | .18   | ..... | ..... | ..... | 1.45  | .03   | ..... | ..... | ..... | ..... | .19   | .78   | ..... | .....   | .24   | ..... | ..... | ..... | .12   | ..... | ..... | ..... | 6.57  |       |        |
| Hightstown.....                            | Raritan.....    | .86           | .36   | .10   | .14   | .67   | ..... | .06   | ..... | ..... | ..... | ..... | 1.35  | ..... | ..... | ..... | ..... | ..... | .65   | .05   | T.    | .....   | .05   | ..... | .52   | ..... | ..... | .10   | ..... | ..... | 4.91  |       |        |
| Imlaystown.....                            | Delaware.....   | *             | *     | *     | *     | ..... | ..... | 1.97  | .10   | ..... | ..... | ..... | ..... | .02   | ..... | ..... | ..... | ..... | .95   | ..... | .05   | .....   | .18   | ..... | .04   | .11   | ..... | .19   | .01   | ..... | ..... | 3.62  |        |
| Indian Mills.....                          | Mullica.....    | .79           | ..... | .98   | .17   | .83   | ..... | .56   | ..... | ..... | ..... | ..... | .90   | .04   | ..... | ..... | ..... | ..... | .08   | ..... | .37   | .....   | .03   | .08   | .80   | T.    | ..... | .47   | .23   | ..... | ..... | 6.33  |        |
| Lakewood.....                              | Metedeconk..... | .12           | .22   | .20   | .61   | .75   | ..... | .10   | ..... | ..... | ..... | ..... | .05   | .05   | T.    | ..... | ..... | ..... | .23   | .58   | ..... | .....   | .04   | ..... | .05   | .85   | ..... | .50   | ..... | ..... | 4.35  |       |        |
| Moorestown.....                            | Delaware.....   | .47           | .16   | .05   | .12   | .05   | ..... | .13   | ..... | ..... | ..... | ..... | .83   | .02   | ..... | ..... | ..... | ..... | .45   | .01   | ..... | .....   | ..... | ..... | .11   | ..... | ..... | ..... | ..... | ..... | 2.40  |       |        |
| Northfield.....                            | Coast.....      | .....         | 2.15  | .54   | .55   | .57   | ..... | .46   | .05   | ..... | ..... | ..... | .25   | .02   | ..... | ..... | ..... | ..... | .31   | .79   | .07   | .....   | ..... | ..... | ..... | ..... | ..... | .09   | ..... | ..... | 5.85  |       |        |
| Pleasantville.....                         | Coast.....      | .....         | 1.20  | .30   | .54   | .67   | ..... | .46   | .01   | ..... | T.    | ..... | .15   | .10   | ..... | ..... | ..... | ..... | .05   | .18   | .86   | .....   | ..... | ..... | ..... | ..... | ..... | .05   | ..... | ..... | 4.57  |       |        |
| Trenton***.....                            | Delaware.....   | .88           | .01   | .28   | .16   | .50   | ..... | .09   | ..... | ..... | ..... | .06   | .13   | T.    | T.    | ..... | T.    | .08   | T.    | T.    | ..... | .06     | .01   | ..... | .02   | ..... | T.    | .01   | ..... | T.    | 2.29  |       |        |
| Tuckerton.....                             | Coast.....      | 1.40          | ..... | .18   | .58   | .52   | .02   | ..... | .30   | ..... | ..... | ..... | .12   | .22   | .02   | ..... | ..... | T.    | .24   | .45   | ..... | .05     | ..... | ..... | ..... | ..... | .16   | .10   | ..... | ..... | 4.36  |       |        |
| Vineland.....                              | Maurice.....    | .....         | 1.47  | .23   | 1.08  | .73   | ..... | ..... | ..... | ..... | ..... | ..... | 3.50  | ..... | ..... | ..... | ..... | ..... | .21   | 1.60  | ..... | .02     | ..... | ..... | ..... | ..... | ..... | .37   | ..... | ..... | 9.21  |       |        |
| Philadelphia, Pa.....                      | Delaware.....   | .66           | .46   | .10   | .22   | .42   | ..... | .21   | ..... | ..... | ..... | ..... | ..... | .10   | ..... | ..... | ..... | T.    | .07   | ..... | ..... | .....   | .12   | ..... | T.    | ..... | T.    | T.    | ..... | ..... | 2.42  |       |        |
| <i>The Sea Coast.</i>                      |                 |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |         |       |       |       |       |       |       |       |       |       |       |        |
| Asbury Park.....                           | Coast.....      | .26           | ..... | .31   | .58   | .20   | ..... | .04   | ..... | ..... | ..... | ..... | .04   | T.    | T.    | ..... | ..... | .50   | .01   | .10   | ..... | .62     | .08   | .13   | ..... | .36   | T.    | ..... | ..... | ..... | 3.23  |       |        |
| Atlantic City.....                         | do.....         | 1.26          | .80   | .25   | .22   | .47   | ..... | .04   | .04   | ..... | ..... | ..... | .01   | .37   | .04   | ..... | ..... | ..... | .06   | .16   | .70   | .....   | ..... | .22   | ..... | .39   | ..... | ..... | ..... | ..... | 5.03  |       |        |
| Cape May City.....                         | do.....         | T.            | 1.52  | .58   | .96   | .35   | ..... | .19   | ..... | ..... | ..... | ..... | T.    | .24   | ..... | ..... | ..... | .03   | 1.03  | .32   | .68   | .02     | ..... | ..... | .04   | ..... | .09   | .01   | ..... | ..... | 6.06  |       |        |
| Long Branch**.....                         | do.....         | .36           | .02   | .40   | .26   | .47   | ..... | .04   | ..... | ..... | ..... | ..... | 1.18  | .01   | .01   | ..... | ..... | ..... | .73   | .01   | .05   | .....</ |       |       |       |       |       |       |       |       |       |       |        |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Prec



## Daily Temperatures for July, 1922.

| Stations.                            | 1          | 2  | 3  | 4    | 6  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean. |      |
|--------------------------------------|------------|----|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------|
| The Highlands and Kittatinny Valley. |            |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |
| Belvidere.....                       | Maximum... | 78 | 89 | 88   | 73 | 75 | 82 | 88 | 90 | 82 | 83 | 81 | 93 | 93 | 78 | 80 | 85 | 89 | 90 | 86 | 77 | 86 | 87 | 85 | 88 | 73 | 79 | 77 | 84 | 83 | 79 | 87    | 83.5 |
|                                      | Minimum... | 63 | 66 | 66   | 61 | 58 | 56 | 66 | 63 | 63 | 61 | 64 | 71 | 68 | 64 | 59 | 54 | 64 | 67 | 66 | 62 | 54 | 60 | 66 | 61 | 61 | 60 | 69 | 65 | 64 | 63 | 54    | 61.6 |
| Charlotteburg.....                   | Maximum... | 69 | 88 | 85   | 60 | 55 | 52 | 47 | 55 | 62 | 54 | 56 | 65 | 61 | 61 | 50 | 48 | 60 | 64 | 63 | 57 | 48 | 55 | 60 | 61 | 57 | 53 | 52 | 64 | 49 | 48 | 47    | 56.3 |
|                                      | Minimum... | 53 | 65 | 64   | 60 | 55 | 52 | 47 | 55 | 62 | 54 | 56 | 65 | 61 | 61 | 50 | 48 | 60 | 64 | 63 | 57 | 48 | 55 | 60 | 61 | 57 | 53 | 52 | 64 | 49 | 48 | 47    | 56.3 |
| Dover.....                           | Maximum... | 73 | 90 | 88   | 70 | 72 | 84 | 84 | 88 | 80 | 79 | 84 | 93 | 89 | 78 | 79 | 85 | 87 | 91 | 85 | 74 | 88 | 86 | 85 | 88 | 70 | 76 | 73 | 84 | 84 | 85 | 88    | 82.6 |
|                                      | Minimum... | 59 | 67 | 65   | 62 | 58 | 54 | 53 | 60 | 62 | 60 | 61 | 69 | 66 | 63 | 56 | 53 | 56 | 67 | 65 | 62 | 54 | 60 | 66 | 65 | 59 | 58 | 58 | 62 | 53 | 61 | 55    | 60.0 |
| Layton.....                          | Maximum... | 79 | 86 | 85   | 71 | 75 | 85 | 83 | 86 | 83 | 81 | 84 | 93 | 88 | 79 | 81 | 81 | 87 | 82 | 81 | 76 | 86 | 89 | 86 | 84 | 75 | 78 | 77 | 86 | 81 | 83 | 85    | 82.5 |
|                                      | Minimum... | 58 | 64 | 63   | 61 | 57 | 58 | 54 | 62 | 58 | 55 | 60 | 72 | 66 | 63 | 58 | 51 | 66 | 61 | 63 | 58 | 49 | 56 | 61 | 64 | 69 | 55 | 59 | 63 | 50 | 44 | 51    | 58.7 |
| Newton.....                          | Maximum... | 82 | 86 | 82   | 69 | 70 | 78 | 79 | 85 | 78 | 78 | 79 | 91 | 89 | 78 | 78 | 91 | 85 | 87 | 84 | 79 | 83 | 83 | 82 | 82 | 75 | 75 | 73 | 83 | 78 | 80 | 85    | 80.9 |
|                                      | Minimum... | 62 | 65 | 62   | 60 | 57 | 60 | 54 | 60 | 61 | 58 | 59 | 70 | 69 | 65 | 58 | 56 | 63 | 66 | 64 | 59 | 59 | 59 | 66 | 64 | 59 | 58 | 55 | 60 | 52 | 56 | 60.8  |      |
| Phillipsburg.....                    | Maximum... | 88 | 95 | 91   | 76 | 79 | 87 | 88 | 94 | 87 | 88 | 81 | 95 | 97 | 84 | 85 | 92 | 90 | 87 | 75 | 88 | 91 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94    | 94   |
|                                      | Minimum... | 64 | 68 | 65   | 64 | 60 | 57 | 56 | 64 | 65 | 63 | 65 | 71 | 68 | 67 | 59 | 54 | 69 | 65 | 67 | 64 | 60 | 61 | 68 | 67 | 63 | 62 | 60 | 65 | 56 | 55 | 54    | 62.8 |
| Sussex.....                          | Maximum... | 86 | 89 | 87   | 73 | 76 | 85 | 86 | 88 | 84 | 84 | 84 | 98 | 88 | 84 | 86 | 90 | 91 | 85 | 80 | 87 | 88 | 86 | 86 | 86 | 77 | 80 | 74 | 88 | 83 | 85 | 88    | 84.9 |
|                                      | Minimum... | 58 | 65 | 66   | 61 | 59 | 52 | 61 | 57 | 59 | 59 | 71 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67    | 67   |
| The Red Sandstone Plain.             |            |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |
| Bergen Point.....                    | Maximum... | 82 | 88 | 83   | 88 | 82 | 84 | 86 | 86 | 81 | 75 | 94 | 94 | 77 | 79 | 84 | 86 | 91 | 85 | 83 | 85 | 89 | 83 | 86 | 73 | 76 | 73 | 82 | 83 | 83 | 83 | 83.5  |      |
|                                      | Minimum... | 67 | 71 | 66   | 59 | 65 | 67 | 74 | 64 | 65 | 65 | 69 | 71 | 67 | 61 | 59 | 65 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69    | 69   |
| Boonton§§.....                       | Maximum... | 70 | 87 | 86   | 72 | 71 | 81 | 82 | 85 | 81 | 81 | 79 | 91 | 90 | 80 | 81 | 85 | 87 | 82 | 75 | 85 | 83 | 85 | 87 | 72 | 78 | 74 | 83 | 81 | 82 | 86 | 81.4  |      |
|                                      | Minimum... | 58 | 64 | 66   | 62 | 57 | 55 | 53 | 57 | 51 | 55 | 58 | 64 | 63 | 63 | 55 | 54 | 63 | 66 | 67 | 61 | 53 | 59 | 65 | 62 | 59 | 57 | 58 | 63 | 54 | 49 | 53    | 58.8 |
| Elizabeth.....                       | Maximum... | 86 | 92 | 90   | 83 | 71 | 84 | 88 | 90 | 83 | 81 | 80 | 93 | 95 | 79 | 80 | 86 | 88 | 92 | 87 | 81 | 89 | 87 | 89 | 89 | 78 | 79 | 74 | 86 | 84 | 84 | 89    | 85.1 |
|                                      | Minimum... | 63 | 68 | 70   | 65 | 59 | 55 | 60 | 61 | 67 | 58 | 64 | 67 | 67 | 66 | 57 | 55 | 63 | 68 | 69 | 68 | 58 | 62 | 68 | 67 | 62 | 61 | 59 | 70 | 56 | 54 | 58    | 62.7 |
| Flemington.....                      | Maximum... | 87 | 92 | 89   | 76 | 73 | 86 | 89 | 86 | 82 | 81 | 80 | 95 | 89 | 77 | 79 | 84 | 89 | 93 | 86 | 78 | 89 | 87 | 89 | 88 | 73 | 77 | 78 | 88 | 84 | 87 | 87    | 84.5 |
|                                      | Minimum... | 64 | 68 | 69   | 64 | 58 | 57 | 58 | 56 | 68 | 62 | 64 | 69 | 68 | 65 | 60 | 54 | 67 | 68 | 67 | 68 | 67 | 58 | 63 | 69 | 68 | 62 | 62 | 61 | 68 | 58 | 59    | 63.1 |
| Highwood.....                        | Maximum... | 75 | 87 | 85   | 70 | 67 | 81 | 81 | 86 | 80 | 78 | 79 | 88 | 87 | 75 | 76 | 83 | 86 | 89 | 80 | 74 | 84 | 84 | 83 | 81 | 73 | 74 | 73 | 83 | 82 | 82 | 80    | 80.2 |
|                                      | Minimum... | 61 | 68 | 69   | 64 | 58 | 54 | 61 | 62 | 65 | 59 | 65 | 68 | 68 | 65 | 56 | 56 | 67 | 69 | 66 | 56 | 63 | 67 | 66 | 61 | 63 | 60 | 66 | 56 | 51 | 57 | 62.5  |      |
| Jersey City.....                     | Maximum... | 81 | 92 | 88   | 83 | 71 | 84 | 85 | 88 | 82 | 81 | 80 | 94 | 81 | 89 | 85 | 85 | 85 | 85 | 85 | 79 | 88 | 88 | 90 | 85 | 74 | 80 | 75 | 82 | 86 | 85 | 87    | 84.5 |
|                                      | Minimum... | 69 | 69 | 73   | 64 | 60 | 58 | 64 | 66 | 67 | 63 | 66 | 70 | 73 | 69 | 63 | 62 | 67 | 68 | 70 | 71 | 63 | 67 | 72 | 63 | 64 | 66 | 66 | 61 | 59 | 64 | 66.0  |      |
| Kearny.....                          | Maximum... | 80 | 91 | 90   | 73 | 73 | 83 | 85 | 90 | 87 | 80 | 80 | 90 | 92 | 82 | 86 | 86 | 86 | 86 | 77 | 90 | 87 | 88 | 87 | 76 | 76 | 76 | 85 | 84 | 87 | 86 | 84.0  |      |
|                                      | Minimum... | 65 | 69 | 68   | 64 | 60 | 60 | 64 | 65 | 66 | 62 | 65 | 70 | 71 | 65 | 60 | 61 | 67 | 69 | 69 | 65 | 62 | 67 | 72 | 68 | 61 | 62 | 62 | 69 | 62 | 58 | 62    | 64.8 |
| Lambertville.....                    | Maximum... | 77 | 90 | 89   | 71 | 70 | 81 | 84 | 89 | 86 | 80 | 80 | 94 | 91 | 74 | 79 | 84 | 89 | 91 | 85 | 74 | 86 | 86 | 89 | 90 | 71 | 76 | 78 | 86 | 82 | 83 | 89    | 82.7 |
|                                      | Minimum... | 64 | 67 | 68   | 61 | 57 | 55 | 59 | 63 | 65 | 59 | 62 | 66 | 68 | 64 | 58 | 56 | 66 | 66 | 67 | 66 | 58 | 64 | 68 | 68 | 60 | 60 | 59 | 69 | 59 | 58 | 60    | 62.6 |
| Little Falls§§.....                  | Maximum... | 77 | 91 | 90   | 73 | 71 | 83 | 85 | 88 | 82 | 82 | 80 | 96 | 92 | 80 | 83 | 84 | 88 | 91 | 89 | 75 | 88 | 86 | 87 | 73 | 77 | 74 | 86 | 84 | 84 | 89 | 83.7  |      |
|                                      | Minimum... | 61 | 65 | 68   | 64 | 59 | 56 | 58 | 62 | 65 | 59 | 63 | 67 | 67 | 64 | 56 | 55 | 64 | 69 | 68 | 64 | 57 | 62 | 66 | 67 | 60 | 62 | 62 | 66 | 55 | 52 | 66    | 61.8 |
| Newark.....                          | Maximum... | 75 | 91 | 88   | 72 | 69 | 82 | 86 | 89 | 81 | 77 | 77 | 92 | 92 | 77 | 82 | 85 | 84 | 89 | 83 | 73 | 86 | 85 | 87 | 85 | 71 | 74 | 72 | 85 | 83 | 84 | 86    | 82.0 |
|                                      | Minimum... | 68 | 68 | 65   | 61 | 59 | 60 | 61 | 65 | 65 | 63 | 65 | 70 | 71 | 66 | 62 | 64 | 68 | 68 | 68 | 66 | 63 | 65 | 69 | 63 | 61 | 62 | 62 | 66 | 64 | 61 | 64    | 64.7 |
| New Brunswick.....                   | Maximum... | 79 | 88 | 86   | 83 | 72 | 80 | 83 | 87 | 88 | 77 | 79 | 92 | 96 | 74 | 77 | 82 | 87 | 89 | 83 | 73 | 86 | 85 | 87 | 85 | 71 | 74 | 72 | 85 | 83 | 84 | 86    | 82.8 |
|                                      | Minimum... | 63 | 68 | 69   | 64 | 53 | 56 | 60 | 62 | 66 | 60 | 62 | 66 | 69 | 66 | 58 | 56 | 65 | 67 | 68 | 69 | 59 | 64 | 70 | 68 | 62 | 62 | 61 | 69 | 58 | 57 | 67    | 63.0 |
| Paterson.....                        | Maximum... | 83 | 90 | 90   | 84 | 73 | 83 | 87 | 92 | 82 | 82 | 81 | 95 | 93 | 78 | 81 | 85 | 89 | 94 | 84 | 79 | 87 | 88 | 86 | 88 | 74 | 78 | 74 | 86 | 85 | 85 | 88    | 84.6 |
|                                      | Minimum... | 64 | 67 | 70   | 64 | 60 | 58 | 60 | 63 | 66 | 61 | 65 | 68 | 69 | 65 | 59 | 59 | 66 | 70 | 69 | 65 | 59 | 65 | 69 | 68 | 61 | 61 | 60 | 67 | 58 | 55 | 61    | 63.6 |
| Plainfield.....                      | Maximum... | 76 | 89 | 87   | 82 | 71 | 82 | 85 | 88 | 81 | 77 | 81 | 93 | 91 | 77 | 78 | 84 | 87 | 91 | 84 | 76 | 87 | 87 | 88 | 86 | 73 | 74 | 74 | 84 | 82 | 84 | 87    | 82.7 |
|                                      | Minimum... | 60 | 64 | 68   | 64 | 58 | 53 | 59 | 58 | 65 | 57 | 61 | 65 | 66 | 65 | 54 | 52 | 61 | 67 | 68 | 65 | 56 | 60 | 65 | 65 | 61 | 60 | 57 | 60 | 53 | 52 | 54    | 60.4 |
| Ridgefield.....                      | Maximum... | 77 | 90 | 86   | 73 | 68 | 82 | 82 | 88 | 82 | 76 | 79 | 92 | 96 | 74 | 77 | 84 | 86 | 89 | 83 | 73 | 85 | 86 | 86 | 84 | 73 | 75 | 73 | 84 | 82 | 83 | 85    | 81.6 |
|                                      | Minimum... | 63 | 68 | 64   | 63 | 59 | 56 | 62 | 62 | 64 | 60 | 65 | 69 | 69 | 64 | 57 | 58 | 65 | 68 | 69 | 64 | 57 | 65 | 69 | 63 | 61 | 63 | 62 | 66 | 56 | 54 | 59    | 62.7 |
| Somerville.....                      | Maximum... | 88 | 90 | 90</ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

Vol. XXVII.

AUGUST, 1922.

No. 8.

### GENERAL SUMMARY.

The weather during August was generally typical of normal conditions at this time of the year, warmth, moisture and wind being much like the average of previous years. There was a persistent deficiency of bright sunshine during nearly all portions of the month except toward the end of the third week, when there were several nearly cloudless days. On the other hand, the number of cloudy days was not unduly large. Frequency of rain continued to be a prominent feature, as in the immediate preceeding months, but the amount was not fully up to normal quantity. The third week was the most pleasant of the month, with but a brief rainy period, ample sunshine and the only consecutive period which was above normal in warmth. In all otehr periods temperatures were consistently subnormal.

Oppressive humidity was an unpleasant feature during the earlier half of the month, but less so later. Altogether it has not been a summer that has been conducive to out-of-door recreation, it has been somewhat more advantageous than usual for erop growth and construction operations, as well as most farm pursuits. The Southern Interior was the warmest and wettest section of the State.

Storm warnings were displayed along the coast on the 7th and 25th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 71.2°, which was 0.9° below the normal. The highest temperature was 96° at Bergen Point, Elizabeth, and Phillipsburg on the 17th, and the lowest, 39°, at Charlotteburg on the 22d. The highest monthly mean temperature was 73.8° at Bridgeton and Imlaystown, and the lowest, 66.1° at Charlotteburg. The greatest daily range of temperature was 41° at Charlotteburg on the 22d.

The temperature departure from the normal for the year 1922 to date, by sections, is: The Highlands, +1.2°; Red Sandstone Plain, +0.9°; Southern Interior, +1.4°; Sea Coast, +1.4°.

### PRECIPITATION.

The average total rainfall of the State, as deduced from observations of 44 stations, was 4.03 inches, which was 0.65 inch below the normal. The greatest monthly amount was 6.78 inches at Hammonton, and the least, 2.18 inches at Ridgefield. The greatest amount accumulated in any 24 consecutive hours was 2.19 inches at Cape May City on the 26th-27th. The average number of days on which .01 inch or more rain fell was 12, which was 2 more than the normal.

The accumulated precipitation departure from the normal for the year 1922 to date, by sections, is: The Highlands, +0.84 inch; Red Sandstone Plain, +2.84 inches; Southern Interior, -0.61 inch; Sea Coast, +0.04 inch.

### WIND.

The prevailing wind movement was from the southwest, with an average velocity of 12 miles per hour, which was 3 miles per

hour, above the normal. The highest velocity, sustained for 5 consecutive minutes, was 50 miles per hour from the southeast at Atlantic City on the 31st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State, was 13, or normal; partly cloudy, 9, or 2 less than the normal; cloudy, 9, or 2 more than the normal. The per cent of possible sunshine was 58, which was 8 per cent less than the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.00 inches, which was normal. The highest reading was 30.34 inches at Cape May City on the 13th, and the lowest, 29.64 inehes at Sandy Hook and Trenton on the 7th.

The mean stage of the Delaware River at Phillipsburg was 1.0 foot; and the highest stage 2.0 feet on the 6th. At Trenton the mean daily stage was 0.7 foot, which was 0.4 foot below the normal. The highest stage was 1.3 feet on the 5th.

Hail fell, without appreciable damage, at Layton on the 1st, Bridgeton on the 3d, Cape May City on the 5th, Jersey City on the 7th, and Layton and Sandy Hook on the 31st.

Thunderstorms occurred in some portions of the State on the 1st, 2d, 3d, 4th, 5th, 7th, 8th, 9th, 12th, 14th, 16th, 17th, 19th, 20th, 26th, 27th, 30th, and 31st. Dense fog was noted on the 2d, 3d, 4th, 5th, 14th, 15th, 26th, 27th, and 29th. Light haze prevailed in various localities from the 4th to the 12th, and also on the 1st, 2d, 14th, 17th, 18th, 24th, and 30th. Solar halos were observed on the 10th, 11th, and 24th.

### COMPARATIVE DATA FOR AUGUST.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 71.7         | 95       | 40      | 6.11           | 10.09     | 3.47   | .....        | .....          | .....   | .....                  |
| 1886..... | 69.5         | 96       | 42      | 2.81           | 5.36      | 1.10   | .....        | .....          | .....   | 8                      |
| 1887..... | 70.4         | 94       | 42      | 3.76           | 7.34      | 2.09   | .....        | .....          | .....   | 9                      |
| 1888..... | 72.5         | 98       | 41      | 6.13           | 10.53     | 2.55   | .....        | .....          | .....   | 10                     |
| 1889..... | 69.6         | 91       | 45      | 5.13           | 9.06      | 1.93   | .....        | .....          | .....   | 11                     |
| 1890..... | 71.5         | 99       | 40      | 4.90           | 7.51      | 2.89   | 8            | 15             | 8       | 13                     |
| 1891..... | 72.8         | 100      | 46      | 5.32           | 8.89      | 2.58   | 8            | 11             | 12      | 13                     |
| 1892..... | 73.4         | 99       | 46      | 3.63           | 5.65      | 0.72   | 12           | 13             | 6       | 9                      |
| 1893..... | 72.8         | 98       | 38      | 6.52           | 11.94     | 3.55   | 14           | 11             | 6       | 8                      |
| 1894..... | 70.9         | 97       | 44      | 2.58           | 9.28      | 0.15   | 13           | 12             | 6       | 7                      |
| 1895..... | 74.2         | 102      | 34      | 2.53           | 5.06      | 0.02   | 16           | 12             | 3       | 7                      |
| 1896..... | 73.6         | 105      | 39      | 1.83           | 3.27      | 0.50   | 17           | 10             | 4       | 7                      |
| 1897..... | 71.0         | 91       | 41      | 4.39           | 8.69      | 2.07   | 14           | 12             | 5       | 9                      |
| 1898..... | 74.8         | 98       | 42      | 5.36           | 9.28      | 2.70   | 12           | 12             | 7       | 10                     |
| 1899..... | 72.3         | 99       | 39      | 4.36           | 9.70      | 2.16   | 10           | 12             | 9       | 9                      |
| 1900..... | 76.3         | 104      | 41      | 2.68           | 4.56      | 0.70   | 15           | 11             | 5       | 10                     |
| 1901..... | 73.8         | 98       | 44      | 9.43           | 15.80     | 4.88   | 12           | 10             | 9       | 11                     |
| 1902..... | 70.1         | 93       | 40      | 3.91           | 10.67     | 1.31   | 15           | 13             | 3       | 9                      |
| 1903..... | 68.4         | 98       | 39      | 6.95           | 14.54     | 4.30   | 10           | 10             | 11      | 13                     |
| 1904..... | 70.8         | 92       | 37      | 6.62           | 13.01     | 2.65   | 15           | 10             | 6       | 9                      |
| 1905..... | 71.1         | 95       | 38      | 5.72           | 9.88      | 3.51   | 13           | 10             | 8       | 12                     |
| 1906..... | 74.6         | 97       | 42      | 5.95           | 17.91     | 2.21   | 10           | 11             | 10      | 13                     |
| 1907..... | 70.5         | 96       | 39      | 3.45           | 7.61      | 1.79   | 14           | 12             | 5       | 10                     |
| 1908..... | 70.6         | 103      | 36      | 5.05           | 9.23      | 2.43   | 11           | 10             | 10      | 10                     |
| 1909..... | 70.2         | 100      | 34      | 4.59           | 12.94     | 1.41   | 14           | 9              | 8       | 6                      |
| 1910..... | 70.4         | 92       | 36      | 3.78           | 8.46      | 1.76   | 9            | 10             | 12      | 10                     |
| 1911..... | 72.1         | 101      | 39      | 8.91           | 14.74     | 5.31   | 10           | 11             | 10      | 11                     |
| 1912..... | 70.0         | 95       | 35      | 3.42           | 7.62      | 1.19   | 12           | 13             | 6       | 10                     |
| 1913..... | 71.7         | 100      | 38      | 4.06           | 10.21     | 1.93   | 18           | 9              | 4       | 10                     |
| 1914..... | 73.3         | 98       | 42      | 3.15           | 6.53      | 1.04   | 13           | 12             | 6       | 9                      |
| 1915..... | 70.9         | 98       | 41      | 7.73           | 10.92     | 4.02   | 11           | 11             | 9       | 13                     |
| 1916..... | 73.2         | 100      | 40      | 1.34           | 4.15      | 0.27   | 20           | 7              | 4       | 6                      |
| 1917..... | 74.0         | 103      | 41      | 2.21           | 5.68      | 0.86   | 18           | 9              | 4       | 8                      |
| 1918..... | 74.4         | 108      | 40      | 1.85           | 4.25      | 0.34   | 18           | 7              | 6       | 7                      |
| 1919..... | 69.9         | 98       | 38      | 6.89           | 12.88     | 3.09   | 13           | 10             | 8       | 13                     |
| 1920..... | 72.3         | 94       | 42      | 6.10           | 10.60     | 2.94   | 8            | 11             | 12      | 17                     |
| 1921..... | 69.8         | 97       | 38      | 4.82           | 8.01      | 2.05   | 18           | 7              | 6       | 9                      |
| 1922..... | 71.2         | 96       | 39      | 4.03           | 6.78      | 2.18   | 13           | 9              | 9       | 12                     |



## Climatological Data for August, 1922.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                               |        | Prevailing direction of wind. | Observers. |             |                                                                                                                          |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|-------------------------------|--------|-------------------------------|------------|-------------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 40 in. or more. | Clear. |                               |            | Pt. cloudy. | Cloudy.                                                                                                                  |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                               |        |                               |            |             |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289              | 31                       | 70.0                          | -1.0                       | 93       | 19    | 48      | 21†   | 35                        | 3.25   | -1.36                      | 1.32                  | 0                          | 7                             | 20     | 1                             | 10         | .....       | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                   | Passaic.....    | 719              | 30                       | 66.1                          | -1.8                       | 93       | 17    | 39      | 22    | 41                        | 5.07   | +0.45                      | 1.50                  | 0                          | 14                            | 14     | 8                             | 9          | w.          |                                                                                                                          |
| Culvers Lake††.....                  | Sussex.....     | 848              | 21                       |                               |                            |          |       | 48      | 21†   | 37                        | 3.91   | -0.51                      | 0.75                  | 0                          | 13                            | 16     | 9                             | 6          | n.          |                                                                                                                          |
| Dover.....                           | Morris.....     | 600              | 38                       | 69.2                          | +0.1                       | 93       | 17    | 46      | 21†   | 37                        | 4.21   | -0.55                      | 0.96                  | 0                          | 13                            | 2      | 18                            | 11         | .....       |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480              | 21                       | 68.4                          | 0.0                        | 90       | 16†   | 44      | 22    | 38                        | 4.02   | +0.12                      | 1.11                  | 0                          | 14                            | 13     | 6                             | 12         | sw.         | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                          | Sussex.....     | 769              | 39                       | 68.9                          | -1.5                       | 91       | 17    | 50      | 21†   | 34                        | 4.31   | -0.11                      | 0.88                  | 0                          | 11                            | 14     | 3                             | 14         | sw.         |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363              | 39                       | 71.8†                         | 0.0                        | 96       | 17    | 42      | 22    | 36                        | 2.89   | -1.73                      | 0.89                  | 0                          | 10                            | 18     | 7                             | 6          | .....       |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442              | 28                       |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                               |        |                               |            | .....       |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 69.1                          | -0.7                       | 96       | 17    | 39      | 22    | 41                        | 3.95   | -0.53                      | 1.50                  | 0                          | 12                            | 14     | 7                             | 10         | sw.         |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                               |        |                               |            |             |                                                                                                                          |
| Bergen Point††.....                  | Hudson.....     | 37               | 25                       | 72.9                          | +0.7                       | 96       | 17    | 52      | 21    | 30                        |        |                            | 1.77                  | 0                          | .....                         | 6      | 20                            | 5          | sw.         | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                         | Morris.....     | 400              | 32                       | 68.7                          | -2.6                       | 95       | 14    | 45      | 22    | 34                        | 3.71   | -1.37                      | 1.19                  | 0                          | 10                            | 18     | 4                             | 9          | ne.         |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185              | 18                       |                               |                            |          |       |         |       |                           | 2.47   | -1.67                      | 0.81                  | 0                          | 9                             | 21     | 10                            | 0          | .....       |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45               | 43                       | 72.8                          | -0.6                       | 96       | 17    | 48      | 21    | 36                        | 2.35   | -1.94                      | 0.66                  | 0                          | 13                            | 16     | 11                            | 4          | w.          |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140              | 36                       | 71.0                          | -1.5                       | 92       | 17    | 49      | 22    | 34                        | 4.67   | -0.04                      | 1.37                  | 0                          | 13                            | 18     | 4                             | 9          | sw.         | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Chandler, M. D.                                     |
| Highwood.....                        | Bergen.....     | 90               | 34                       | 69.5                          | -1.3                       | 91       | 17    | 47      | 21    | 33                        | 2.50   | -2.25                      | 0.62                  | 0                          | 14                            | 8      | 12                            | 11         | sw.         |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10               | 24                       | 72.8                          | -1.3                       | 95       | 17    | 54      | 21    | 26                        | 4.66   | +0.13                      | 1.15                  | 0                          | 14                            | 10     | 10                            | 11         | sw.         |                                                                                                                          |
| Kearny.....                          | Hudson.....     | 100              | 3                        |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                               |        |                               |            | .....       |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370              | 35                       | 70.4                          | -2.0                       | 91       | 17    | 50      | 21†   | 33                        | 2.95   | -1.71                      | 0.90                  | 0                          | 15                            | 13     | 10                            | 8          | w.          | Wm. J. Lauderdale.<br>Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.                          |
| Little Falls.....                    | Passaic.....    | 180              | 19                       | 71.2                          | -2.0                       | 95       | 17    | 48      | 21    | 34                        | 3.87   | -0.53                      | 1.40                  | 0                          | 11                            | 15     | 5                             | 11         | nw.         |                                                                                                                          |
| Newark.....                          | Essex.....      | 159              | 80                       | 72.4                          | -0.4                       | 95       | 17    | 55      | 21    | 27                        | 2.30   | -2.77                      | 0.53                  | 0                          | 11                            | 15     | 12                            | 4          | nw.         |                                                                                                                          |
| New Brunswick.....                   | Middlesex.....  | 110              | 69                       | 71.2                          | -0.9                       | 91       | 17    | 48      | 21    | 30                        | 4.39   | -0.76                      | 1.59                  | 0                          | 9                             | 20     | 4                             | 7          | w.          |                                                                                                                          |
| New Milford††.....                   | Bergen.....     | .....            | 2                        |                               |                            |          |       |         |       |                           | 2.81   | .....                      | 0.71                  | 0                          | 12                            | .....  | .....                         | .....      | .....       | Hackensack Water Co.<br>Marion T. Probert.<br>E. D. Pearson.<br>George P. Kirsten.                                       |
| Paterson.....                        | Passaic.....    | 80               | 51                       | 72.4                          | +0.2                       | 95       | 17    | 51      | 21    | 33                        | 2.65   | -2.08                      | 0.62                  | 0                          | 14                            | 10     | 5                             | 16         | ne.         |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120              | 34                       | 70.3                          | -1.5                       | 93       | 17    | 44      | 21    | 36                        | 3.62   | -1.59                      | 1.39                  | 0                          | 14                            | 12     | 11                            | 8          | sw.         |                                                                                                                          |
| Ridgefield††.....                    | Bergen.....     | 70               | 7                        | 70.6                          | .....                      | 93       | 17    | 47      | 21    | 34                        | 2.18   | .....                      | 0.58                  | 0                          | 14                            | 14     | 6                             | 11         | n.          |                                                                                                                          |
| Somerville.....                      | Somerset.....   | 70               | 39                       | 71.5                          | -0.9                       | 94       | 17    | 46      | 21    | 38                        | 3.89   | -0.95                      | 1.32                  | 0                          | 14                            | 20     | 8                             | 3          | w.          | H. B. TenEyck.<br>Wm. H. Meeder.<br>Hackensack Water Co.<br>U. S. Weather Bureau.                                        |
| South Orange.....                    | Essex.....      | 200              | 52                       | 71.3*                         | +0.4                       | 90       | 16†   | 52      | 21    | 25                        | 3.19   | -1.89                      | 0.72                  | 0                          | 8                             | 8      | 16                            | 7          | sw.         |                                                                                                                          |
| Woodcliffe Lake††.....               | Bergen.....     | .....            | 2                        |                               |                            |          |       |         |       |                           | 2.68   | .....                      | 0.63                  | 0                          | 11                            | .....  | .....                         | .....      | .....       |                                                                                                                          |
| New York, N. Y.....                  | .....           | 365              | 52                       | 71.4                          | -0.8                       | 91       | 17    | 55      | 21    | 21                        | 5.32   | +0.79                      | 2.16                  | 0                          | 16                            | 8      | 7                             | 16         | sw.         |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 71.3                          | -1.0                       | 96       | 17    | 44      | 21    | 38                        | 3.23   | -1.39                      | 1.77                  | 0                          | 12                            | 14     | 9                             | 8          | sw.         |                                                                                                                          |
| The Southern Interior.               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                               |        |                               |            |             |                                                                                                                          |
| Belle Plain.....                     | Cape May.....   | 30               | 28                       | 71.2                          | -1.4                       | 89       | 17†   | 44      | 22    | 36                        | 3.35   | -0.95                      | 0.76                  | 0                          | 14                            | 19     | 4                             | 8          | s.          | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                       | Cumberland..... | 30               | 41                       | 73.8                          | -1.2                       | 93       | 16†   | 50      | 21    | 30                        | 5.24   | +0.65                      | 1.35                  | 0                          | 12                            | 19     | 6                             | 6          | sw.         |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12               | 36                       | 73.3                          | -0.9                       | 93       | 17    | 51      | 22    | 34                        | 5.13   | -0.38                      | 1.30                  | 0                          | 15                            | 16     | 4                             | 11         | sw.         |                                                                                                                          |
| Camp Dix.....                        | Burlington..... | 127              | 4                        | 70.9*                         | .....                      | 90       | 17    | 48      | 21    | 32                        | 3.29   | .....                      | 1.03                  | 0                          | 15                            | 7      | 4                             | 20         | sw.         |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103              | 21                       |                               |                            |          |       |         |       |                           | 6.78   | +2.80                      | 1.76                  | 0                          | 9                             | 13     | 12                            | 6          | s.          | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                      | Mercer.....     | 120              | 30                       | 70.4                          | -1.9                       | 91       | 17†   | 45      | 21    | 35                        | 5.54   | +0.96                      | 1.73                  | 0                          | 12                            | 15     | 10                            | 6          | sw.         |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115              | 34                       | 73.8*                         | +1.0                       | 93       | 17    | 45      | 21    | 37                        | 3.99   | -0.78                      | 1.74                  | 0                          | 12                            | 14     | 8                             | 9          | w.          |                                                                                                                          |
| Indian Mills††.....                  | Burlington..... | 76               | 33                       | 71.3                          | -1.3                       | 93       | 17    | 48      | 21    | 35                        | 5.58   | -0.35                      | 1.45                  | 0                          | 13                            | 7      | 11                            | 13         | sw.         |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54               | 18                       | 70.4                          | -0.7                       | 92       | 17    | 48      | 21    | 33                        | 3.95   | -2.10                      | 1.20                  | 0                          | 12                            | 12     | 9                             | 10         | sw.         | R. W. Holman.<br>Julius Bernstein.<br>Stokes Seed Farms Co.<br>William L. Flick.                                         |
| Lumberton.....                       | Burlington..... | .....            |                          | 71.8                          | .....                      | 94       | 17    | 49      | 22    | 37                        | 4.61   | .....                      | 1.41                  | 0                          | 15                            | 12     | 13                            | 6          | sw.         |                                                                                                                          |
| Moorestown††.....                    | Burlington..... | 75               | 59                       | 73.0*                         | +0.4                       | 92       | 17    | 51      | 22    | 34*                       | 3.88   | -1.01                      | 1.51                  | 0                          | 9                             | .....  | .....                         | .....      | .....       |                                                                                                                          |
| Northfield.....                      | Atlantic.....   | 25               | 15                       |                               |                            |          |       |         |       |                           | 4.05   | -0.30                      | 1.11                  | 0                          | 13                            | .....  | .....                         | .....      | .....       |                                                                                                                          |
| Pleasantville††.....                 | Atlantic.....   | 26               | 24                       |                               |                            |          |       |         |       |                           | 5.34   | +0.41                      | 1.22                  | 0                          | 12                            | 13     | 8                             | 10         | .....       | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Trenton.....                         | Mercer.....     | 190              | 50                       | 71.0                          | -2.0                       | 90       | 17    | 54      | 21    | 26                        | 5.16   | -0.21                      | 1.38                  | 0                          | 17                            | 7      | 8                             | 16         | sw.         |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23               | 29                       | 72.6                          | -0.1                       | 94       | 17    | 49      | 21    | 31                        | 5.94   | +0.40                      | 1.72                  | 0                          | 13                            | 13     | 13                            | 5          | sw.         |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109              | 53                       | 73.4                          | -0.3                       | 92       | 17    | 49      | 21    | 33                        | 4.31   | -0.50                      | 1.80                  | 0                          | 12                            | 12     | 10                            | 9          | sw.         |                                                                                                                          |
| Philadelphia, Pa.....                | .....           | 117              | 52                       | 73.0                          | -0.8                       | 91       | 17    | 56      | 21    | 23                        | 2.56   | -2.05                      | 0.61                  | 0                          | 12                            | 8      | 4                             | 19         | sw.         |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 72.0                          | -0.9                       | 94       | 17    | 44      | 22    | 37                        | 4.82   | -0.03                      | 1.80                  | 0                          | 13                            | 13     | 9                             | 9          | sw.         |                                                                                                                          |
| The Sea Coast.                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                               |        |                               |            |             |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22               | 33                       | 70.9                          | -0.9                       | 89       | 16†   | 52      | 21    | 23                        | 5.91   | +0.85                      | 1.22                  | 0                          | 14                            | 14     | 2                             | 15         | sw.         | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16               | 48                       | 71.2                          | -1.3                       | 85       | 5     | 53      | 21    | 21                        | 5.13   | +0.83                      | 1.60                  | 0                          | 12                            | 11     | 8                             | 12         | s.          |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17               | 38                       | 72.7                          | -0.7                       | 86       | 5     | 60      | 21    | 19                        | 4.79   | +0.53                      | 2.19                  | 0                          | 12                            | 11     | 7                             | 13         | sw.         |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25               | 15                       | 71.0                          | 0.0                        | 91       | 16†   | 53      | 21    | 25                        | 3.93   | -2.20                      | 0.86                  | 0                          | 15                            | 7      | 9                             | 15         | nw.         |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22               | 24                       | 72.0                          | -0.8                       | 89       | 17    | 58      | 21    | 23                        | 2.76   | -1.78                      | 0.72                  | 0                          | 13                            | 8      | 9                             | 14         | sw.         |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 71.6                          | -0.7                       | 91       | 16†   | 52      | 21    | 25                        | 4.50   | -0.35                      | 2.19                  | 0                          | 11                            | 10     | 7                             | 14         | sw.         |                                                                                                                          |
| For the State.....                   |                 |                  |                          | 71.2                          | -0.9                       | 96       | 17    | 39      | 22    | 41                        | 4.03   | -0.65                      | 2.19                  | 0                          | 12                            | 13     | 9                             | 9          | sw.         |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion New Milford and Woodcliff are Weehawken.



Daily Precipitation for August, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |      |      |      |     |     |      |      |     |     |      |     |      |     |    |     |     |     |     |      |    |    |    |    |    |     |      |      |      |     |     | Total. |      |      |
|--------------------------------------------|-----------------|---------------|------|------|------|-----|-----|------|------|-----|-----|------|-----|------|-----|----|-----|-----|-----|-----|------|----|----|----|----|----|-----|------|------|------|-----|-----|--------|------|------|
|                                            |                 | 1             | 2    | 3    | 4    | 5   | 6   | 7    | 8    | 9   | 10  | 11   | 12  | 13   | 14  | 15 | 16  | 17  | 18  | 19  | 20   | 21 | 22 | 23 | 24 | 25 | 26  | 27   | 28   | 29   | 30  | 31  |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |      |      |     |     |      |      |     |     |      |     |      |     |    |     |     |     |     |      |    |    |    |    |    |     |      |      |      |     |     |        |      |      |
| Belvidere.....                             | Delaware.....   |               |      | .20  | .25  |     |     |      | .07  |     |     |      |     |      |     |    |     |     |     | .65 |      |    |    |    |    |    | .43 | 1.32 |      |      |     | .33 | 3.25   |      |      |
| Charlotteburg.....                         | Passaic.....    | .61           |      | .30  | .07  |     |     |      | .04  | .03 |     |      | .01 |      |     |    |     | .27 |     | .17 | .82  |    |    |    |    |    | .46 | .56  | *    | .23  |     |     | 1.50   | 5.07 |      |
| Culvers Lake.....                          | Delaware.....   | .41           | .10  | .02  | .72  |     |     | .01  | .02  |     |     |      | .02 |      |     |    |     | .52 |     |     |      |    |    |    |    |    | .47 | .41  | .01  | .45  |     | T   | .75    | 3.91 |      |
| Dover.....                                 | Passaic.....    | .31           | .29  | .96  | .20  |     |     |      |      |     |     |      | .07 |      |     |    |     | .07 |     |     | .18  |    |    |    |    |    | .42 | *    | .63  | .27  | .01 |     | .80    | 4.21 |      |
| Layton.....                                | Delaware.....   | 1.11          | .17  | .07  | .76  |     |     | .04  | .06  | .02 |     |      | .03 |      |     |    |     | .30 |     |     | .16  |    |    |    |    |    | .43 | .42  |      | .30  |     |     | .15    | 4.02 |      |
| Newton.....                                | Delaware.....   | .14           |      | .66  | .08  |     |     |      |      |     |     |      | .02 |      |     |    |     | .61 |     |     | .56  |    |    |    |    |    | .42 | .88  | .01  | .48  |     |     | .45    | 4.31 |      |
| Phillipsburg.....                          | do.....         | .85           | .17  | .04  | .03  |     |     |      | .01  |     |     |      |     |      |     |    |     |     |     |     | .02  |    |    |    |    |    | .42 | .12  |      | .34  |     |     | .89    | 2.89 |      |
| Sussex.....                                | Hudson.....     |               |      |      |      |     |     |      |      |     |     |      |     |      |     |    |     |     |     |     |      |    |    |    |    |    |     |      |      |      |     |     |        |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |      |      |     |     |      |      |     |     |      |     |      |     |    |     |     |     |     |      |    |    |    |    |    |     |      |      |      |     |     |        |      |      |
| Bergen Point.....                          | Coast.....      | .23           | .13  | .03  |      |     |     | .13  |      | .03 | .14 |      | .25 | T.   |     | T. |     |     |     |     | .17  |    |    |    |    |    | T.  | .85  | .60  | .37  |     |     | 1.77   | 4.70 |      |
| Boonton   .....                            | Passaic.....    | 1.19          |      | .06  | .02  |     |     |      |      |     |     |      | .03 | T.   |     |    |     | .51 |     | .14 | .41  |    |    |    |    |    | .15 | .41  | .49  | .33  |     |     | 3.71   |      |      |
| Chatham   .....                            | do.....         | .41           |      | .48  | .06  |     |     |      | .03  | T.  |     |      |     |      |     |    |     |     |     | .81 |      |    |    |    |    |    | .01 | .11  | T.   | .46  |     | .37 | 2.74   |      |      |
| Elizabetb.....                             | Coast.....      | *             | .26  | .05  | .03  |     |     |      | T    |     | .02 |      | .02 |      |     |    |     |     |     | *   | .62  |    |    |    |    |    | .03 | .04  | *    | .66  |     | .10 | .52    | 2.35 |      |
| Flemington.....                            | Raritan.....    | 1.35          | .02  | .03  | T.   |     |     |      | .25  |     |     |      | .06 | T.   | .06 |    |     |     |     | *   | .60  |    |    |    |    |    | .32 | 1.37 | .02  | .24  |     |     | .35    | 4.67 |      |
| Highwood.....                              | Hackensack..... | .32           | .15  | T.   | .62  |     |     | T.   | .01  | T.  |     | .10  |     | .03  |     |    |     |     | .05 | .13 |      |    |    |    |    |    | .04 | .14  | .17  | .25  |     | .02 | .47    | 2.50 |      |
| Jersey City.....                           | Coast.....      | .30           | T.   | .40  | .22  |     |     | .50  | .01  | .05 |     | .04  |     | .05  |     |    |     |     |     | T.  | .40  |    |    |    |    |    | .02 | 1.10 | .27  | .15  |     | T.  | 1.15   | 4.66 |      |
| Kearny.....                                | Coast.....      | .30           | T.   | T.   |      |     |     | T.   | T.   |     |     |      |     |      |     |    |     |     |     |     |      |    |    |    |    |    | .14 | .06  | .05  | .26  |     |     | .39    | 2.95 |      |
| Lambertville.....                          | Delaware.....   | .90           | .10  | .07  |      |     |     | .12  | .06  |     |     | .05  | .04 | .45  | .05 |    |     | .05 |     | T.  | .21  |    |    |    |    |    | .14 | .06  | .05  | .26  |     |     | .39    | 2.95 |      |
| Little Falls   .....                       | Passaic.....    |               | .74  |      | .20  |     |     |      | .06  |     |     |      | .02 | .02  |     |    | .75 |     |     | .05 | 1.40 |    |    |    |    |    | .08 | .25  | .03  | .34  | .01 |     | .37    | 2.74 |      |
| Newark**.....                              | Coast.....      | .23           |      | .03  |      |     |     |      | .03  | .13 |     |      | .03 | .13  |     |    |     |     |     | .53 |      |    |    |    |    |    | .10 | .13  | .25  | .39  |     | .11 | .37    | 2.30 |      |
| New Brunswick.....                         | Raritan.....    | 1.59          | .18  | T.   | .09  | T.  |     |      | .05  |     |     | T.   | .13 |      |     |    |     |     |     | T.  | .12  |    |    |    |    |    | T.  | .75  | .19  | .25  |     |     | 1.17   | 4.39 |      |
| New Milford.....                           | Hackensack..... | .36           | .02  | .01  | .71  |     |     |      |      |     |     | .05  |     |      |     |    |     |     | .13 | .09 |      |    |    |    |    |    | .07 | .09  | .14  | .46  |     | .68 | 2.81   |      |      |
| Paterson.....                              | Passaic.....    | .62           | .04  | .06  | .03  | .03 |     | T.   |      | T.  |     |      | .03 |      |     |    | .42 |     | .08 | .36 |      |    |    |    |    |    | .10 | .12  | .18  | .18  |     |     | .40    | 2.65 |      |
| Plainfield.....                            | Raritan.....    | .21           |      | .45  | .10  |     |     | .05  | .01  |     |     | .01  | T.  |      |     |    |     | .22 | .49 |     |      |    |    |    |    |    | .07 | .07  | .17  | .26  |     | .12 | 1.39   | 3.62 |      |
| Ridgefield**.....                          | Hackensack..... | .30           | .20  | .02  | .14  |     |     | .02  | .02  |     |     | .05  | .05 | .01  |     | T. |     | .15 |     |     |      |    |    |    |    |    | .04 | .19  | .18  | .27  |     | .01 | .58    | 2.18 |      |
| Somerville.....                            | Raritan.....    | 1.32          | .02  | .02  | .28  | .02 |     | .02  | .01  |     |     | .03  | .03 |      |     |    |     |     | .20 |     |      |    |    |    |    |    |     | .27  | .15  | .25  |     |     | .20    | 1.10 |      |
| South Orange.....                          | Rahway.....     | .59           |      | .05  | .01  |     |     | .08  | *    |     |     |      | .06 | *    |     |    |     |     | .72 |     |      |    |    |    |    |    | *   | 1.00 | .15  | .05  | T.  | T.  | .48    | 3.19 |      |
| Woodcliff Lake.....                        | Hackensack..... | .45           | .08  | .05  |      |     |     | *    |      |     |     |      | *   |      |     |    |     |     | .61 |     |      |    |    |    |    |    | .10 | .63  | .17  | .14  |     |     | .45    | 2.68 |      |
| New York, N. Y***                          | Coast.....      | .28           | .04  | .43  | .20  |     |     | .06  | .01  | .02 | .02 |      | .05 |      | .02 |    |     |     | .38 | T.  |      |    |    |    |    |    | .01 | 2.16 | .32  | .27  |     | T.  | 1.05   | 5.32 |      |
| <i>The Southern Interior.</i>              |                 |               |      |      |      |     |     |      |      |     |     |      |     |      |     |    |     |     |     |     |      |    |    |    |    |    |     |      |      |      |     |     |        |      |      |
| Belle Plain.....                           | Tuckahoe.....   | .10           | .15  | .11  | .11  |     | .09 |      | .57  | .27 |     |      | .12 | .48  | .03 |    |     |     |     |     |      |    |    |    |    |    |     | .14  |      | .76  | .30 |     |        | .12  | 3.35 |
| Bridgeton.....                             | Coast.....      | .29           | T.   | .60  | .15  |     |     | .48  |      | .05 |     | .22  | .10 | 1.15 |     |    |     |     | .15 |     |      |    |    |    |    |    |     | .15  | .55  |      |     |     | 1.35   | 5.24 |      |
| Burlington.....                            | Delaware.....   | 1.01          | 1.30 | 1.28 | .08  | T.  |     | .08  | .29  |     |     | .06  |     | .28  | .04 |    |     |     | .03 | .05 |      |    |    |    |    |    |     | .17  | .23  | .22  |     | *   | *      | 5.13 |      |
| Camp Dix   .....                           | Delaware.....   | .82           | .15  | .17  |      | .05 |     | .07  | .52  |     |     | .02  | .04 | .02  | .02 |    |     |     | .19 |     |      |    |    |    |    |    |     | .04  | 1.03 | .01  |     |     | .14    | 3.29 |      |
| Hammononton.....                           | Mullica.....    |               |      | .97  | 1.76 |     |     |      | .42  |     |     |      | .18 | .06  |     |    |     |     |     |     |      |    |    |    |    |    |     |      | .56  | 1.49 | .37 |     |        | .97  | 6.78 |
| Hightstown.....                            | Raritan.....    | .72           | .05  |      | .06  | .05 |     | .03  | .23  |     |     | T.   | T.  | T.   |     |    |     |     | .21 | .21 |      |    |    |    |    |    | T.  | 1.35 | .32  | .58  |     |     | 1.73   | 5.84 |      |
| Imlaystown.....                            | Delaware.....   | .82           | 1.74 |      |      | .03 |     | .37  |      |     |     | .03  | .01 | .02  |     |    |     |     | .15 | .04 |      |    |    |    |    |    |     |      | .65  | .05  |     |     | .08    | 3.99 |      |
| Indian Mills.....                          | Mullica.....    | .65           | 1.45 | .40  | .50  | .04 |     |      | .25  |     |     | .10  | .32 | T.   |     |    |     |     | .12 |     |      |    |    |    |    |    |     | .23  | 1.11 | .34  |     |     | .67    | 5.58 |      |
| Lakewood.....                              | Metedeconk..... | .27           | .52  | .14  |      | T.  | .10 |      | .07  | .22 |     | .10  | T.  |      |     |    |     |     | .22 |     |      |    |    |    |    |    |     | .65  | 1.20 | .18  |     | T.  | .28    | 3.95 |      |
| Lamberton.....                             | Delaware.....   | 1.41          | .40  | .04  | .45  | .08 |     | .13  | .49  |     |     | .06  | .02 | .06  |     |    |     |     | .31 |     |      |    |    |    |    |    |     | .08  | .51  | .31  |     |     | .26    | 4.61 |      |
| Moorestown.....                            | Delaware.....   | .76           | 1.51 | .07  |      | .18 |     | .11  | .28  |     |     | .13  | .31 | T.   |     |    |     |     |     |     |      |    |    |    |    |    |     | .38  |      | .45  |     |     |        | 3.88 |      |
| Northfield.....                            | Coast.....      | T.            | .02  | .17  |      | .30 | .06 | 1.10 | .10  |     |     | .13  | .31 | T.   |     |    |     |     |     |     |      |    |    |    |    |    | T.  | .15  | 1.11 | .06  |     | .20 | .34    | 4.05 |      |
| Pleasantville.....                         | Coast.....      | .12           |      | .40  |      | .06 |     | .58  | .06  |     |     | 1.10 | .90 |      |     |    |     |     | .02 | .10 | .22  |    |    |    |    |    | T.  | .10  | 1.22 | .07  |     | .06 | .67    | 5.84 |      |
| Trenton***.....                            | Delaware.....   | 1.38          | .27  | .25  | .12  |     |     | .01  | .19  |     |     | .02  | .01 | .13  |     |    |     |     | .27 | .01 |      |    |    |    |    |    |     | .02  | 1.18 | .18  | .19 |     | .01    | .92  | 5.16 |
| Tuckerton.....                             | Coast.....      |               | .48  | 1.72 |      |     | .06 | .41  |      |     |     | .19  | .48 | .06  |     |    |     |     | .34 |     |      |    |    |    |    |    |     | .03  | .32  | 1.62 | .04 |     | .19    | 5.94 |      |
| Vineland.....                              | Maurice.....    | .02           | .78  |      | .09  | .06 |     | .67  | .15  |     |     | .11  |     | .17  |     |    |     |     |     |     |      |    |    |    |    |    |     | .14  | 1.80 | .28  |     |     | .04    | 4.31 |      |
| Philadelphia, Pa.....                      | Delaware.....   | .53           | T.   | .08  | T.   |     |     | .14  | .26  |     |     | .09  | .05 | .21  | T.  |    |     |     |     |     |      |    |    |    |    |    |     | .06  | .05  | .17  | .31 |     | T.     | .61  | 2.56 |
| <i>The Sea Coast.</i>                      |                 |               |      |      |      |     |     |      |      |     |     |      |     |      |     |    |     |     |     |     |      |    |    |    |    |    |     |      |      |      |     |     |        |      |      |
| Asbury Park.....                           | Coast.....      | .75           | .01  | .96  | .10  |     |     | .04  |      | .16 |     | .43  |     | .03  |     |    |     |     | .56 |     |      |    |    |    |    |    |     | T.   | .76  | .77  | .12 |     | .05    | 1.17 | 5.91 |
| Atlantic City***                           | do.....         | T.            | .45  | 1.15 | .10  | .19 |     | T.   | 1.11 | .05 |     | T.   | .13 | .11  | .01 |    |     |     |     |     |      |    |    |    |    |    |     | T.   | 1.26 | .04  |     | T.  | .53    | 5.13 |      |
| Cape May City.....                         | do.....         | T.            |      | .01  | T.   | .37 |     | .32  | .03  | .34 |     | T.   | .01 | .36  |     |    |     |     |     |     |      |    |    |    |    |    |     | .10  | .28  | 2.19 | .22 |     | T.     | .56  | 4.79 |
| Long Branch**.....                         | do.....         | .86           | T.   | .11  | .15  |     |     | .01  | T.   | .19 |     | .26  | .12 | .07  |     |    |     |     | .08 | .06 |      |    |    |    |    |    |     | T.   | .52  | .75  | .12 |     | .10    | .53  | 3.93 |
| Sandy Hook***.....                         | do.....         | .63           | .01  | T.   | .01  |     |     |      | .15  |     |     | .05  | .04 |      |     |    |     |     | .10 | .02 |      |    |    |    |    |    |     | .01  | .34  | .48  | .20 |     | T.     | .72  | 2.76 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                               |                                         | Sun-                             |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|-----------------------------------------|-----------------------------------------|----------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity, per cent. at 8 a. m. | Relative humidity, per cent. at 8 p. m. | Percentage of possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                         |                                         |                                  |
| Atlantic City.....    | 30.00         | 30.32    | 13    | 29.70   | 7     | 16               | 50              | se.        | 31    | 85                                      | 84                                      | 52                               |
| Cape May City.....    | 30.04         | 30.34    | 13    | 29.74   | 7     | 8                | 27              | se.        | 1     | 85                                      | 86                                      | .....                            |
| Long Branch.....      |               |          |       |         |       |                  | 30              | ne.        | 28§   | 68*                                     | 65†                                     | 63                               |
| Newark.....           | 29.99         | 30.33    | 13    | 29.66   | 7     | 13               | 43              | nw.        | 16    | 81                                      | 73                                      | 51                               |
| New York, N. Y.....   | 30.00         | 30.34    | 13    | 29.67   | 8     | 9                | 32              | s.         | 1     | 76                                      | 69                                      | 55                               |
| Philadelphia, Pa..... |               |          |       |         |       |                  |                 |            |       |                                         |                                         |                                  |
| Ridgefield.....       | 29.98         | 30.33    | 13    | 29.64   | 7     | 13               | 41              | uw.        | 20    | 82                                      | 80                                      | 53                               |
| Sandy Hook.....       | 29.99         | 30.32    | 14    | 29.64   | 7     | 9                | 35              | n.         | 20    | 80                                      | 75                                      | 59                               |
| Trenton.....          |               |          |       |         |       |                  |                 |            |       |                                         |                                         |                                  |



## Daily Temperatures for August, 1922.

| Stations.                            | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15   | 16 | 17 | 18 | 19 | 20 | 21 | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29  | 30 | 31 | Mean. |      |
|--------------------------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|-----|----|----|----|----|----|----|-----|----|----|-------|------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |       |      |
| Belvidere.....                       | Maximum..... | 78 | 79 | 80 | 80 | 83 | 85 | 80 | 79 | 75 | 80 | 76 | 70 | 81 | 84   | 85 | 90 | 92 | 91 | 93 | 78 | 79  | 83 | 85 | 85 | 75 | 77 | 75 | 71  | 81 | 83 | 81    | 81.1 |
|                                      | Minimum..... | 62 | 62 | 61 | 59 | 56 | 56 | 67 | 64 | 55 | 56 | 55 | 56 | 56 | 62   | 64 | 65 | 63 | 67 | 68 | 56 | 48  | 48 | 51 | 62 | 65 | 62 | 57 | 53  | 50 | 61 | 58    | 58.9 |
| Charlotteburg.....                   | Maximum..... | 84 | 73 | 77 | 81 | 80 | 82 | 78 | 76 | 76 | 75 | 73 | 64 | 80 | 85   | 86 | 91 | 93 | 87 | 81 | 69 | 74  | 80 | 82 | 82 | 73 | 74 | 70 | 70  | 81 | 81 | 79    | 78.6 |
|                                      | Minimum..... | 53 | 58 | 56 | 54 | 57 | 47 | 61 | 58 | 52 | 47 | 44 | 51 | 50 | 50   | 54 | 68 | 60 | 65 | 64 | 52 | 45  | 59 | 44 | 53 | 59 | 52 | 50 | 46  | 53 | 51 | 53.6  |      |
| Dover.....                           | Maximum..... | 80 | 76 | 76 | 84 | 84 | 85 | 78 | 79 | 77 | 76 | 74 | 65 | 80 | 85   | 88 | 90 | 93 | 89 | 83 | 74 | 80  | 83 | 84 | 83 | 75 | 71 | 71 | 82  | 80 | 78 | 79.9  |      |
|                                      | Minimum..... | 60 | 62 | 62 | 59 | 57 | 53 | 68 | 62 | 56 | 51 | 51 | 57 | 56 | 64   | 68 | 64 | 69 | 68 | 56 | 46 | 46  | 51 | 63 | 65 | 61 | 56 | 59 | 49  | 60 | 56 | 58.6  |      |
| Layton.....                          | Maximum..... | 74 | 74 | 79 | 83 | 81 | 84 | 79 | 76 | 76 | 78 | 77 | 67 | 83 | 86   | 86 | 90 | 90 | 89 | 83 | 72 | ... | 82 | 84 | 79 | 80 | 79 | 74 | 71  | 83 | 82 | 79    | 80.2 |
|                                      | Minimum..... | 57 | 63 | 61 | 63 | 55 | 53 | 68 | 60 | 51 | 51 | 52 | 52 | 58 | 60   | 62 | 62 | 63 | 67 | 53 | 45 | 44  | 46 | 63 | 65 | 59 | 55 | 59 | 50  | 51 | 55 | 56.6  |      |
| Newton.....                          | Maximum..... | 78 | 73 | 74 | 81 | 83 | 80 | 80 | 82 | 78 | 76 | 76 | 72 | 81 | 84   | 86 | 90 | 91 | 88 | 82 | 72 | 76  | 80 | 84 | 78 | 75 | 74 | 72 | 71  | 80 | 80 | 78    | 79.2 |
|                                      | Minimum..... | 60 | 61 | 61 | 60 | 56 | 60 | 60 | 62 | 52 | 54 | 56 | 56 | 55 | 60   | 61 | 67 | 63 | 69 | 72 | 55 | 50  | 50 | 60 | 64 | 60 | 56 | 58 | 51  | 59 | 59 | 58.6  |      |
| Phillipsburg.....                    | Maximum..... | 78 | 73 | 74 | 81 | 83 | 80 | 80 | 82 | 78 | 76 | 76 | 72 | 81 | 84   | 86 | 90 | 91 | 88 | 82 | 72 | 76  | 80 | 84 | 78 | 75 | 74 | 72 | 71  | 80 | 80 | 78    | 81.1 |
|                                      | Minimum..... | 63 | 63 | 62 | 61 | 59 | 56 | 67 | 63 | 57 | 57 | 55 | 57 | 59 | 65   | 62 | 64 | 64 | 66 | 70 | 58 | 50  | 42 | 53 | 53 | 67 | 62 | 58 | 60  | 51 | 64 | 58    | 59.5 |
| Sussex.....                          | Maximum..... | 78 | 73 | 74 | 81 | 83 | 80 | 80 | 82 | 78 | 76 | 76 | 72 | 81 | 84   | 86 | 90 | 91 | 88 | 82 | 72 | 76  | 80 | 84 | 78 | 75 | 74 | 72 | 71  | 80 | 80 | 78    | 81.1 |
|                                      | Minimum..... | 63 | 63 | 62 | 61 | 59 | 56 | 67 | 63 | 57 | 57 | 55 | 57 | 59 | 65   | 62 | 64 | 64 | 66 | 70 | 58 | 50  | 42 | 53 | 53 | 67 | 62 | 58 | 60  | 51 | 64 | 58    | 59.5 |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |       |      |
| Bergen Point.....                    | Maximum..... | 81 | 74 | 77 | 83 | 83 | 85 | 83 | 85 | 75 | 86 | 77 | 78 | 86 | 88   | 88 | 93 | 96 | 92 | 88 | 74 | 77  | 85 | 85 | 84 | 80 | 74 | 69 | 70  | 83 | 80 | 80    | 81.6 |
|                                      | Minimum..... | 65 | 66 | 65 | 66 | 63 | 62 | 69 | 65 | 59 | 63 | 60 | 67 | 61 | 71   | 69 | 69 | 69 | 72 | 74 | 62 | 52  | 55 | 59 | 64 | 70 | 76 | 61 | 64  | 61 | 55 | 66    | 64.2 |
| Boonton§§.....                       | Maximum..... | 80 | 78 | 78 | 82 | 84 | 83 | 80 | 81 | 79 | 77 | 76 | 66 | 80 | 85   | 88 | 90 | 87 | 85 | 72 | 77 | 79  | 82 | 83 | 78 | 76 | 71 | 72 | 80  | 82 | 80 | 79.7  |      |
|                                      | Minimum..... | 58 | 61 | 61 | 57 | 58 | 55 | 64 | 61 | 56 | 51 | 51 | 55 | 54 | 64   | 63 | 65 | 61 | 68 | 67 | 54 | 49  | 45 | 48 | 58 | 63 | 63 | 56 | 59  | 48 | 59 | 55    | 57.7 |
| Elizabeth.....                       | Maximum..... | 84 | 64 | 64 | 60 | 59 | 58 | 68 | 67 | 60 | 60 | 55 | 63 | 61 | 65   | 67 | 70 | 66 | 70 | 73 | 57 | 48  | 51 | 54 | 61 | 69 | 64 | 62 | 61  | 52 | 64 | 61    | 61.9 |
|                                      | Minimum..... | 63 | 62 | 64 | 63 | 60 | 57 | 67 | 60 | 55 | 56 | 61 | 62 | 66 | 64   | 67 | 66 | 69 | 72 | 58 | 50 | 49  | 51 | 59 | 67 | 64 | 60 | 61 | 51  | 64 | 60 | 60.9  |      |
| Highwood.....                        | Maximum..... | 77 | 75 | 75 | 80 | 77 | 83 | 81 | 78 | 75 | 75 | 72 | 67 | 78 | 84   | 87 | 89 | 91 | 89 | 84 | 73 | 73  | 81 | 83 | 81 | 77 | 73 | 68 | 68  | 79 | 78 | 77    | 78.3 |
|                                      | Minimum..... | 61 | 62 | 63 | 61 | 58 | 56 | 68 | 64 | 58 | 58 | 53 | 62 | 60 | 66   | 65 | 72 | 64 | 71 | 58 | 47 | 48  | 55 | 63 | 70 | 61 | 60 | 60 | 51  | 56 | 60 | 60.7  |      |
| Jersey City.....                     | Maximum..... | 84 | 80 | 80 | 85 | 84 | 85 | 87 | 84 | 80 | 81 | 76 | 73 | 80 | 88   | 90 | 91 | 95 | 91 | 85 | 75 | 79  | 81 | 83 | 82 | 77 | 74 | 72 | 71  | 80 | 80 | 78    | 81.6 |
|                                      | Minimum..... | 66 | 66 | 68 | 64 | 65 | 67 | 64 | 68 | 60 | 62 | 61 | 64 | 62 | 62   | 69 | 70 | 72 | 73 | 67 | 59 | 54  | 58 | 60 | 65 | 68 | 64 | 62 | 60  | 58 | 65 | 62    | 64.0 |
| Kearny.....                          | Maximum..... | 84 | 77 | 77 | 80 | 82 | 86 | 84 | 81 | 75 | 76 | 73 | 65 | 78 | 79   | 87 | 90 | 91 | 90 | 83 | 73 | 78  | 83 | 86 | 85 | 78 | 74 | 68 | 70  | 81 | 83 | 74    | 79.7 |
|                                      | Minimum..... | 63 | 61 | 60 | 63 | 61 | 59 | 68 | 66 | 56 | 57 | 57 | 59 | 61 | 66   | 67 | 66 | 66 | 68 | 70 | 56 | 50  | 50 | 54 | 61 | 66 | 65 | 60 | 59  | 54 | 64 | 59    | 61.0 |
| Little Falls§§.....                  | Maximum..... | 82 | 79 | 79 | 84 | 85 | 87 | 83 | 83 | 80 | 79 | 77 | 72 | 82 | 86   | 89 | 92 | 95 | 90 | 85 | 75 | 81  | 83 | 85 | 86 | 80 | 74 | 71 | 72  | 83 | 85 | 80    | 82.1 |
|                                      | Minimum..... | 61 | 63 | 63 | 61 | 59 | 56 | 67 | 63 | 58 | 56 | 53 | 59 | 57 | 64   | 63 | 70 | 64 | 71 | 69 | 57 | 48  | 49 | 53 | 62 | 68 | 63 | 60 | 60  | 52 | 61 | 59    | 60.3 |
| Newark.....                          | Maximum..... | 80 | 77 | 76 | 83 | 86 | 85 | 84 | 81 | 78 | 77 | 74 | 66 | 78 | 84   | 87 | 90 | 95 | 91 | 84 | 74 | 80  | 83 | 85 | 85 | 79 | 73 | 69 | 67  | 83 | 83 | 80    | 80.5 |
|                                      | Minimum..... | 65 | 65 | 65 | 64 | 66 | 64 | 70 | 64 | 59 | 63 | 61 | 63 | 68 | 67   | 69 | 71 | 73 | 74 | 68 | 57 | 55  | 58 | 61 | 65 | 70 | 63 | 63 | 60  | 56 | 68 | 67    | 64.4 |
| New Brunswick.....                   | Maximum..... | 82 | 74 | 75 | 83 | 86 | 83 | 81 | 73 | 76 | 73 | 71 | 75 | 82 | 85   | 89 | 91 | 89 | 86 | 82 | 78 | 81  | 84 | 86 | 85 | 83 | 70 | 71 | 79  | 81 | 79 | 81    | 80.5 |
|                                      | Minimum..... | 61 | 62 | 62 | 60 | 60 | 60 | 68 | 67 | 59 | 58 | 57 | 62 | 62 | 65   | 68 | 69 | 67 | 70 | 73 | 60 | 48  | 51 | 55 | 60 | 68 | 63 | 61 | 62  | 53 | 64 | 60    | 61.8 |
| Paterson.....                        | Maximum..... | 82 | 77 | 77 | 83 | 86 | 87 | 82 | 84 | 80 | 80 | 77 | 74 | 82 | 86   | 89 | 92 | 93 | 88 | 77 | 82 | 86  | 87 | 85 | 80 | 75 | 70 | 72 | 84  | 84 | 80 | 80.9  |      |
|                                      | Minimum..... | 63 | 64 | 64 | 62 | 61 | 59 | 69 | 65 | 59 | 60 | 55 | 62 | 60 | 66   | 68 | 70 | 67 | 72 | 70 | 58 | 51  | 53 | 57 | 63 | 69 | 62 | 62 | 61  | 55 | 64 | 61    | 62.3 |
| Plainfield.....                      | Maximum..... | 83 | 77 | 80 | 83 | 85 | 86 | 83 | 83 | 77 | 78 | 74 | 67 | 77 | 84   | 87 | 91 | 93 | 90 | 85 | 75 | 80  | 82 | 84 | 85 | 78 | 74 | 73 | 72  | 81 | 82 | 80    | 82.6 |
|                                      | Minimum..... | 60 | 63 | 62 | 60 | 59 | 55 | 66 | 65 | 58 | 56 | 52 | 57 | 59 | 64   | 69 | 67 | 69 | 69 | 60 | 44 | 47  | 49 | 58 | 67 | 65 | 59 | 60 | 49  | 59 | 59 | 59.7  |      |
| Ridgefield.....                      | Maximum..... | 81 | 75 | 76 | 82 | 83 | 85 | 83 | 82 | 76 | 76 | 74 | 65 | 79 | 86   | 88 | 90 | 93 | 90 | 84 | 73 | 78  | 84 | 86 | 83 | 80 | 73 | 68 | 72  | 82 | 80 | 78    | 80.1 |
|                                      | Minimum..... | 62 | 63 | 64 | 61 | 59 | 58 | 63 | 63 | 59 | 55 | 52 | 57 | 59 | 64   | 69 | 67 | 69 | 69 | 69 | 60 | 44  | 47 | 49 | 58 | 67 | 65 | 59 | 60  | 49 | 59 | 59    | 59.7 |
| Somerville.....                      | Maximum..... | 85 | 80 | 78 | 84 | 85 | 87 | 85 | 85 | 79 | 81 | 78 | 68 | 74 | 85   | 89 | 92 | 94 | 93 | 89 | 77 | 82  | 85 | 87 | 86 | 80 | 78 | 71 | 73  | 84 | 86 | 82    | 82.8 |
|                                      | Minimum..... | 61 | 62 | 62 | 59 | 57 | 56 | 66 | 66 | 60 | 55 | 55 | 62 | 60 | 66   | 68 | 70 | 67 | 72 | 70 | 58 | 51  | 53 | 57 | 63 | 69 | 61 | 61 | 60  | 53 | 63 | 59    | 61.1 |
| South Orange.....                    | Maximum..... | 80 | 75 | 76 | 79 | 81 | 84 | 82 | 78 | 75 | 76 | 74 | 66 | 74 | 85   | 89 | 92 | 94 | 90 | 85 | 80 | 75  | 79 | 81 | 84 | 85 | 71 | 64 | ... | 78 | 78 | 79.1  |      |
|                                      | Minimum..... | 65 | 64 | 63 | 61 | 61 | 59 | 68 | 65 | 60 | 61 | 59 | 60 | 60 | 66</ |    |    |    |    |    |    |     |    |    |    |    |    |    |     |    |    |       |      |



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVII.

SEPTEMBER, 1922.

No. 9.

## GENERAL SUMMARY.

September weather will often show wide variations during a single month, and notable departure from normal conditions. September of 1922 was more than ordinarily remarkable for an almost total lack of rain after the 12th, no rain falling thereafter except some scattered amounts in south-central districts on the 24th. Prior to the 12th, rainfall conditions were practically normal, except that the greater portion of the entire month's amount occurred on that day. There were general rains on the 4th, and in northern districts on the 6th-7th. The frequency of days with measurable amounts of rain was 4 less than normal, and this deficiency has been exceeded only in 1908 and 1914. July and portions of June and August were rainier than usual and afforded a considerable impetus to the feeling that this summer was inordinately rainy, but from the middle of August to the close of September practically all excesses of moisture had been depleted to a deficiency, and all sections of the State, except the Red Sandstone Plain, for the year to date, show an accumulated slight deficiency of precipitation.

Periods of temperature fluctuation were not greatly varied either as to extremes or duration, and a slight excess of warmth accumulated during the month. The occurrence of frost and freezing temperatures in northern districts on the 26th was a normal occurrence. September without frosts in susceptible places would be notably abnormal.

The persistence of pleasant weather, sunshine and warmth greatly aided outdoor work, but was detrimental to plowing and seeding of fall grains and grasses and this work became somewhat behindhand. Late crops matured nicely and harvesting was carried forward advantageously.

Storm warnings were displayed along the coast on the 21st.

## TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 40 stations, was 66.7°, which was 1.1° above the normal. The highest temperature was 95° at Bridgeton and Burlington on the 6th, and the lowest, 27°, at Charlotteburg on the 26th. The highest monthly mean temperature was 69.9° at Bridgeton, and the lowest, 61.6° at Charlotteburg. The greatest daily range of temperature was 46° at Phillipsburg on the 27th.

The temperature departure from the normal for the year 1922 to date, by sections, is: The Highlands, +1.3°; Red Sandstone Plain, +0.9°; Southern Interior, +1.4°; Sea Coast, +1.4°.

## PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 47 stations, was 2.26 inches, which was 1.45 inches below the normal. The greatest monthly rainfall was 5.22 inches at Bergen Point, and the least, 0.59 inch at Long Branch. The greatest amount of rain in any 24 consecutive hours was 3.35 inches at Belvidere on the 4th. The mean of the number of days on which .01 inch or more of rain fell was 4, or 4 less than the normal.

The precipitation departure from the normal for the year 1922 to date, by sections, is: The Highlands, -0.40 inch; Red Sandstone Plain, +1.66 inches; Southern Interior, -2.31 inches; Sea Coast, -1.79 inches.

## WIND.

The prevailing wind direction was from the northeast, with an average velocity of 10 miles per hour, which was normal. The highest velocity, sustained for five consecutive minutes, was 48 miles per hour from the northeast on the 21st at Atlantic City. There were high winds also on the 24th and 25th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 19, which was 5 more than the normal; partly cloudy, 5, or 4 less than the normal; cloudy, 6, or 1 less than the normal. The per cent of possible sunshine was 70, which was 2 per cent above the normal.

## MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.13 inches, which was 0.06 inch above the normal. The highest reading was 30.48 inches at Ridgefield on the 19th, and the lowest, 29.71 inches at Sandy Hook on the 24th.

The mean stage of the Delaware River at Phillipsburg was 1.2 feet, and the highest, 2.0 feet on the 5th. At Trenton the mean stage was 0.7 foot, which was 0.4 foot below the normal. The highest stage, 1.5 feet, occurred on the 5th.

Thunderstorms occurred in some portions of the State on the 1st, 4th, 6th, 11th, 12th, 24th, and 25th. Dense fog occurred on the 1st, 2d, 3d, 4th, 5th, 11th, 15th, 21st, and 24th. Solar halos were observed on the 6th, 17th, 20th, 21st, 22d, and 24th, and a lunar halo on the 1st. Frost occurred quite generally throughout the State on the 26th; killing in portions of Bergen, Morris, Passaic, and Sussex Counties, heavy elsewhere in the northern half of the State, and light in south Jersey. Light frost occurred on the 18th, 19th, and 20th in northern sections.

## COMPARATIVE DATA FOR SEPTEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 64.2         | 93       | 38      | 0.83           | 1.69      | 0.25   | .....        | .....          | .....   | .....                  |
| 1886..... | 66.9         | 95       | 36      | 1.13           | 1.76      | 0.86   | .....        | .....          | .....   | 7                      |
| 1887..... | 61.6         | 90       | 30      | 3.66           | 6.25      | 1.62   | .....        | .....          | .....   | 7                      |
| 1888..... | 63.1         | 84       | 29      | 7.09           | 10.65     | 3.75   | .....        | .....          | 14      | 12                     |
| 1889..... | 64.8         | 90       | 34      | 8.36           | 13.13     | 3.17   | .....        | .....          | 14      | 14                     |
| 1890..... | 64.4         | 91       | 33      | 4.75           | 8.61      | 2.59   | 10           | 10             | 10      | 10                     |
| 1891..... | 68.7         | 95       | 39      | 2.46           | 5.91      | 0.90   | 16           | 9              | 5       | 6                      |
| 1892..... | 64.2         | 90       | 33      | 1.81           | 3.78      | 1.02   | 15           | 11             | 4       | 6                      |
| 1893..... | 62.7         | 90       | 31      | 3.20           | 5.38      | 1.93   | 12           | 10             | 8       | 8                      |
| 1894..... | 68.8         | 97       | 31      | 7.46           | 11.65     | 3.69   | 10           | 10             | 10      | 8                      |
| 1895..... | 69.7         | 103      | 29      | 1.07           | 2.71      | 0.22   | 17           | 10             | 3       | 5                      |
| 1896..... | 65.1         | 95       | 30      | 4.37           | 8.74      | 2.26   | 19           | 7              | 4       | 5                      |
| 1897..... | 65.5         | 99       | 30      | 1.65           | 3.97      | 0.21   | 19           | 7              | 4       | 5                      |
| 1898..... | 68.6         | 100      | 31      | 2.00           | 3.87      | 0.65   | 17           | 8              | 5       | 6                      |
| 1899..... | 64.4         | 93       | 30      | 5.88           | 9.61      | 2.88   | 15           | 9              | 6       | 9                      |
| 1900..... | 69.9         | 98       | 32      | 2.86           | 7.37      | 1.09   | 14           | 10             | 6       | 6                      |
| 1901..... | 66.8         | 94       | 29      | 3.38           | 6.82      | 1.63   | 15           | 9              | 6       | 10                     |
| 1902..... | 64.6         | 93       | 30      | 5.65           | 8.95      | 3.11   | 11           | 7              | 12      | 13                     |
| 1903..... | 65.0         | 92       | 29      | 3.34           | 7.10      | 1.39   | 17           | 8              | 5       | 7                      |
| 1904..... | 64.8         | 93       | 23      | 4.79           | 10.08     | 0.89   | 14           | 10             | 6       | 7                      |
| 1905..... | 65.4         | 90       | 28      | 5.23           | 9.18      | 2.87   | 16           | 7              | 7       | 8                      |
| 1906..... | 68.9         | 94       | 33      | 2.19           | 4.66      | 0.75   | 15           | 9              | 6       | 7                      |
| 1907..... | 67.1         | 92       | 31      | 8.08           | 12.95     | 3.55   | 10           | 8              | 12      | 14                     |
| 1908..... | 65.7         | 90       | 29      | 2.09           | 4.13      | 0.95   | 11           | 10             | 9       | 3                      |
| 1909..... | 64.5         | 89       | 30      | 3.30           | 4.58      | 2.08   | 11           | 10             | 9       | 8                      |
| 1910..... | 67.3         | 97       | 32      | 2.39           | 3.97      | 1.01   | 12           | 10             | 8       | 6                      |
| 1911..... | 66.4         | 90       | 30      | 2.88           | 5.33      | 1.08   | 10           | 12             | 8       | 9                      |
| 1912..... | 65.9         | 87       | 28      | 4.47           | 6.76      | 2.68   | 12           | 7              | 11      | 10                     |
| 1913..... | 64.4         | 96       | 27      | 3.87           | 6.55      | 1.56   | 13           | 8              | 9       | 9                      |
| 1914..... | 64.0         | 99       | 24      | 0.57           | 1.64      | 0.14   | 21           | 6              | 3       | 3                      |
| 1915..... | 68.5         | 97       | 30      | 2.08           | 4.46      | 0.55   | 17           | 9              | 4       | 5                      |
| 1916..... | 65.2         | 98       | 31      | 2.84           | 5.29      | 1.29   | 20           | 7              | 3       | 6                      |
| 1917..... | 61.5         | 87       | 25      | 2.74           | 6.13      | 0.47   | 16           | 7              | 7       | 6                      |
| 1918..... | 62.2         | 90       | 29      | 3.84           | 6.00      | 2.66   | 14           | 8              | 8       | 9                      |
| 1919..... | 65.8         | 96       | 30      | 3.26           | 6.28      | 1.04   | 16           | 6              | 8       | 8                      |
| 1920..... | 66.8         | 90       | 30      | 3.87           | 8.53      | 1.67   | 17           | 8              | 5       | 7                      |
| 1921..... | 70.2         | 99       | 36      | 2.35           | 5.04      | 0.80   | 15           | 8              | 7       | 8                      |
| 1922..... | 66.7         | 95       | 27      | 2.26           | 5.22      | 0.59   | 19           | 5              | 6       | 4                      |



## Climatological Data for September, 1922.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                                                                                                                          |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                                                                                                                  |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 239              | 31                       | 66.3                          | +1.6                       | 90       | 6     | 35      | 26    | 40                        | 4.02   | +0.25                      | 3.35                  | 0                          | 3                              | 22     | 3           | 5                             | .....      | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                   | Passaic.....    | 719              | 30                       | 61.6                          | -0.3                       | 90       | 6     | 27      | 26    | 45                        | 4.22   | -0.20                      | 3.00                  | 0                          | 5                              | 18     | 3           | 9                             | w.         |                                                                                                                          |
| Culvers Lake†.....                   | Sussex.....     | 848              | 21                       | 66.8                          | +1.6                       | 90       | 6     | 33      | 26    | 39                        | 1.98   | -2.56                      | 1.45                  | 0                          | 5                              | 22     | 4           | 4                             | n.         |                                                                                                                          |
| Dover.....                           | Morris.....     | 600              | 38                       | 64.2                          | +2.0                       | 91       | 6     | 33      | 26    | 39                        | 3.96   | -0.13                      | 3.30                  | 0                          | 4                              | 12     | 11          | 7                             | .....      |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480              | 21                       | 64.5                          | +2.2                       | 94       | 6     | 29      | 26    | 44                        | 1.93   | -1.99                      | 1.15                  | 0                          | 6                              | 18     | 4           | 8                             | sw.        | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                          | Sussex.....     | 769              | 39                       | 65.0                          | +1.5                       | 90       | 6     | 33      | 26    | 34                        | 2.40   | -1.41                      | 1.43                  | 0                          | 3                              | 19     | 3           | 8                             | sw.        |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363              | 39                       | 66.8†                         | +1.6                       | 90       | 6     | 34      | 26    | 46†                       | 1.92   | -1.74                      | 1.73                  | 0                          | 3                              | 26     | 0           | 4                             | .....      |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442              | 28                       | 66.9‡                         | +2.7                       | 93       | 6     | 29      | 26    | 43                        | 1.76   | -2.14                      | 1.29                  | 0                          | 5                              | .....  | .....       | .....                         | sw.        |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 65.0                          | +1.6                       | 94       | 6     | 27      | 26    | 46                        | 2.77   | -1.24                      | 3.35                  | 0                          | 4                              | 20     | 4           | 6                             | sw.        |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Bergen Point††.....                  | Hudson.....     | 37               | 25                       | 67.2c                         | +0.8                       | 89‡      | 7     | 42      | 26    | 28                        | 5.22   | +1.69                      | 1.65                  | 0                          | 6                              | 8      | 17          | 5                             | uw.        | William M. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boontou.....                         | Morris.....     | 400              | 32                       | 63.3                          | -0.3                       | 90       | 6     | 30      | 26    | 41                        | 3.30   | -0.83                      | 0.99                  | 0                          | 6                              | 22     | 1           | 7                             | ne.        |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185              | 18                       | 65.4                          | .....                      | 90       | 6     | 35      | 26    | 33                        | 4.20   | .....                      | 1.95                  | 0                          | 4                              | 19     | 5           | 6                             | se.        |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45               | 43                       | 68.0                          | +1.3                       | 94       | 6     | 37      | 26    | 38                        | 2.29   | -1.48                      | 1.24                  | 0                          | 5                              | 17     | 9           | 4                             | .....      |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140              | 36                       | 67.6                          | +1.3                       | 94       | 6     | 35      | 26    | 41                        | 0.86   | -3.04                      | 0.72                  | 0                          | 3                              | 22     | 2           | 6                             | ne.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood.....                        | Bergen.....     | 90               | 34                       | 64.2                          | +0.5                       | 89       | 6     | 32      | 26    | 33                        | 4.56   | +0.64                      | 2.06                  | 0                          | 6                              | 15     | 6           | 9                             | ne.        |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10               | 24                       | 68.8                          | +1.6                       | 93       | 6     | 44      | 26    | 27                        | 3.28   | -0.07                      | 1.70                  | 0                          | 5                              | 15     | 8           | 7                             | s.         |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370              | 35                       | 66.8                          | +1.0                       | 92       | 6     | 34      | 26    | 33                        | 0.75   | -3.14                      | 0.47                  | 0                          | 3                              | 21     | 3           | 6                             | w.         |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180              | 19                       | 66.0                          | +1.9                       | 93       | 6     | 34      | 26    | 39                        | 4.37   | +0.79                      | 1.60                  | 0                          | 6                              | 19     | 5           | 8                             | nw.        | Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                        |
| Newark.....                          | Essex.....      | 159              | 80                       | 67.6                          | +1.2                       | 93       | 6     | 42      | 26    | 27                        | 2.07   | -1.69                      | 0.86                  | 0                          | 5                              | 17     | 12          | 1                             | nw.        |                                                                                                                          |
| New Brunswick.....                   | Middlesex.....  | 110              | 69                       | 66.4                          | +0.8                       | 92       | 6     | 35      | 26    | 36                        | 1.70   | -1.90                      | 0.83                  | 0                          | 4                              | 24     | 1           | 5                             | w.         |                                                                                                                          |
| New Milford††.....                   | Bergen.....     | 2                |                          |                               |                            |          |       |         |       |                           | 4.26   |                            | 2.30                  | 0                          | 5                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80               | 51                       | 67.6                          | +1.4                       | 94       | 6     | 37      | 26    | 34                        | 3.58   | -0.55                      | 1.76                  | 0                          | 5                              | 13     | 0           | 17                            | sw.        | Marion T. Probert.<br>E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.                                             |
| Plainfield.....                      | Union.....      | 120              | 34                       | 65.2                          | -0.4                       | 92       | 6     | 33      | 26    | 39                        | 1.84   | -2.53                      | 1.38                  | 0                          | 6                              | 18     | 6           | 6                             | u.         |                                                                                                                          |
| Ridgefield†.....                     | Bergen.....     | 70               | 7                        | 65.4                          | .....                      | 90       | 6     | 35      | 26    | 33                        | 4.20   | .....                      | 1.95                  | 0                          | 4                              | 19     | 5           | 6                             | se.        |                                                                                                                          |
| Somerville.....                      | Somerset.....   | 70               | 39                       | 66.9                          | +0.9                       | 94       | 6     | 33      | 26    | 43                        | 1.25   | -2.40                      | 1.00                  | 0                          | 3                              | 24     | 2           | 4                             | nw.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200              | 52                       | 64.8                          | +0.7                       | 88       | 6     | 37      | 26†   | 29                        | 2.39   | -1.42                      | 1.23                  | 0                          | 4                              | 13     | 11          | 6                             | sw.        | Wm. H. Meeder.<br>Hackensack Water Co.<br>U. S. Weather Bureau.                                                          |
| Woodcliffe Lake†.....                | Bergen.....     | 2                |                          |                               |                            |          |       |         |       |                           | 3.12   | .....                      | 1.62                  | 0                          | 4                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| New York, N. Y.....                  |                 | 365              | 52                       | 67.4                          | +0.9                       | 89       | 6     | 46      | 26    | 23                        | 3.05   | -1.48                      | 1.53                  | 0                          | 5                              | 15     | 6           | 9                             | s.         |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 66.4                          | +0.9                       | 94       | 6     | 30      | 26    | 43                        | 2.86   | -1.18                      | 2.30                  | 0                          | 5                              | 18     | 6           | 6                             | nw.        |                                                                                                                          |
| The Southern Interior.               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belle Plain.....                     | Cape May.....   | 30               | 28                       | 65.8                          | -0.7                       | 91       | 6     | 32      | 27    | 43                        | 2.55   | -0.84                      | 1.09                  | 0                          | 7                              | 24     | 5           | 1                             | s.         | Thomas J. Durell.<br>Henry A. Jordan.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                       | Cumberland..... | 30               | 41                       | 69.9                          | +1.7                       | 95       | 6     | 40      | 26    | 37                        | 0.80   | -2.51                      | 0.35                  | 0                          | 4                              | 21     | 8           | 1                             | e.         |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12               | 36                       | 69.6                          | +2.8                       | 95       | 6     | 41      | 27    | 38                        | 1.66   | -1.85                      | 0.75                  | 0                          | 3                              | 22     | 3           | 5                             | ne.        |                                                                                                                          |
| Camp Dix.....                        | Burlington..... | 127              | 4                        | 66.8                          | .....                      | 91       | 6     | 34      | 26    | 40                        | 0.88   | .....                      | 0.42                  | 0                          | 4                              | 14     | 7           | 9                             | ne.        |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103              | 21                       | 65.6                          | -1.2                       | 91       | 6     | 33      | 26    | 38                        | 1.37   | -1.82                      | 0.78                  | 0                          | 3                              | 21     | 3           | 6                             | s.         | Charles M. Phillips.<br>E. B. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                      | Mercer.....     | 120              | 30                       | 65.6                          | -1.2                       | 91       | 6     | 33      | 26    | 38                        | 1.50   | -1.63                      | 0.55                  | 0                          | 5                              | 21     | 2           | 7                             | sw.        |                                                                                                                          |
| Imlaytown.....                       | Monmouth.....   | 115              | 34                       | 66.4                          | +0.1                       | 94       | 6     | 33      | 26    | 40                        | 2.28   | -1.54                      | 1.19                  | 0                          | 7                              | 25     | 0           | 5                             | e.         |                                                                                                                          |
| Indian Mills†.....                   | Burlington..... | 76               | 33                       | 67.4                          | +1.3                       | 94       | 6     | 34      | 26    | 42                        | 1.74   | -2.17                      | 1.14                  | 0                          | 3                              | 15     | 8           | 7                             | se.        |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54               | 18                       | 65.2                          | +0.6                       | 90       | 6     | 35      | 26    | 35                        | 0.87   | -1.92                      | 0.40                  | 0                          | 4                              | 20     | 4           | 6                             | sw.        | R. W. Holman.<br>Julius Bernstein.<br>Stokes Seed Farms Co.<br>William L. Flick.                                         |
| Lumberton.....                       | Burlington..... | 75               | 59                       | 67.0                          | .....                      | 93       | 6     | 33      | 26    | 43                        | 2.70   | .....                      | 1.77                  | 0                          | 4                              | 16     | 9           | 5                             | se.        |                                                                                                                          |
| Moorestown†.....                     | Burlington..... | 75               | 59                       | 69.0                          | +3.0                       | 93       | 6     | 35      | 26    | 39                        | 1.98   | -1.65                      | 1.11                  | 0                          | 3                              | 19     | 4           | 7                             | se.        |                                                                                                                          |
| Northfield.....                      | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    |       |         |       |                           | 1.34   | -1.16                      | 0.48                  | 0                          | 4                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Pleasantville†.....                  | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    |       |         |       |                           | 0.73   | -2.39                      | 0.45                  | 0                          | 4                              | 24     | 4           | 2                             | .....      | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Trenton.....                         | Mercer.....     | 190              | 50                       | 67.2                          | +0.3                       | 91       | 6     | 40      | 26    | 30                        | 1.75   | -1.84                      | 0.91                  | 0                          | 2                              | 13     | 8           | 9                             | ne.        |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23               | 29                       | 68.6                          | +2.4                       | 93       | 6     | 35      | 26    | 42                        | 1.72   | -1.34                      | 0.94                  | 0                          | 4                              | 18     | 6           | 6                             | se.        |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109              | 53                       | 68.6†                         | +1.6                       | 93       | 6     | 40      | 26    | 34†                       | 2.37   | -1.32                      | 1.24                  | 0                          | 4                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Philadelphia, Pa.....                |                 | 117              | 52                       | 69.7                          | +2.3                       | 93       | 6     | 47      | 26    | 25                        | 1.23   | -2.15                      | 0.69                  | 0                          | 4                              | 12     | 4           | 14                            | sw.        |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 67.5                          | +1.1                       | 95       | 6     | 32      | 27    | 43                        | 1.64   | -1.71                      | 1.77                  | 0                          | 4                              | 20     | 5           | 5                             | se.        |                                                                                                                          |
| The Sea Coast.                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22               | 33                       | 67.9                          | +1.1                       | 92       | 6     | 47      | 27    | 28                        | 1.53   | -1.46                      | 1.22                  | 0                          | 4                              | 16     | 6           | 8                             | ne.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16               | 48                       | 68.6                          | +1.8                       | 86       | 6     | 45      | 26    | 21                        | 1.15   | -1.90                      | 0.50                  | 0                          | 4                              | 18     | 7           | 5                             | ne.        |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17               | 38                       | 69.2                          | +0.2                       | 86       | 5     | 42      | 26    | 25                        | 2.07   | -0.93                      | 1.70                  | 0                          | 3                              | 18     | 8           | 4                             | u.         |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25               | 15                       | 67.0                          | +1.1                       | 94       | 6     | 47      | 27    | 30                        | 0.59   | -2.47                      | 0.39                  | 0                          | 3                              | 17     | 9           | 4                             | ne.        |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22               | 24                       | 68.0                          | +0.9                       | 89       | 6     | 50      | 26    | 22                        | 1.09   | -2.41                      | 0.45                  | 0                          | 5                              | 15     | 9           | 6                             | s.         |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 68.1                          | +1.0                       | 94       | 6     | 42      | 26    | 30                        | 1.29   | -1.83                      | 1.70                  | 0                          | 4                              | 17     | 8           | 5                             | ue.        |                                                                                                                          |
| For the State.....                   |                 |                  |                          | 66.7                          | +1.1                       | 95       | 6     | 27      | 26    | 46                        | 2.26   | -1.45                      | 3.35                  | 0                          | 4                              | 19     | 5           | 6                             | ne.        |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion New Milford and Woodcliff are Weehawken.



## Daily Precipitation for September, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |     |   |      |     |      |     |     |     |    |     |      |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | Total. |      |
|--------------------------------------------|-----------------|---------------|-----|---|------|-----|------|-----|-----|-----|----|-----|------|-----|----|----|----|----|----|----|----|----|----|----|-----|------|-----|----|----|----|----|----|--------|------|
|                                            |                 | 1             | 2   | 3 | 4    | 5   | 6    | 7   | 8   | 9   | 10 | 11  | 12   | 13  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24  | 25   | 26  | 27 | 28 | 29 | 30 | 31 |        |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |   |      |     |      |     |     |     |    |     |      |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    |        |      |
| Belvidere.....                             | Delaware.....   |               |     |   | 3.35 |     |      |     |     |     |    | .13 | .54  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 4.02   |      |
| Charlotteburg.....                         | Passaic.....    |               |     |   | 3.00 |     | *    | .76 |     |     |    | *   | .46  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 4.22   |      |
| Culvers Lake.....                          | Delaware.....   |               |     |   | 1.45 |     |      | .25 |     |     |    |     | .27  |     |    |    |    |    |    |    |    |    |    |    | .01 |      |     |    |    |    |    |    | 1.98   |      |
| Dover.....                                 | Passaic.....    |               |     |   | 3.30 |     | .41  |     |     |     |    | *   | .25  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 3.96   |      |
| Layton.....                                | Delaware.....   |               |     |   | .48  |     | *    | .12 |     |     |    |     | 1.15 |     |    |    |    |    |    |    |    |    |    |    | .18 |      |     |    |    |    |    |    | 1.93   |      |
| Newton.....                                | Delaware.....   |               |     |   | 1.43 |     |      | .81 |     |     |    |     | .16  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 2.40   |      |
| Phillipsburg.....                          | do.....         |               |     |   | 1.73 |     |      |     |     |     |    | .02 | .17  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 1.92   |      |
| Sussex.....                                | Hudson.....     |               |     |   | 1.29 |     | .03  | .30 |     |     |    |     | .11  |     |    |    |    |    |    |    |    |    |    |    | .03 |      |     |    |    |    |    |    | 1.76   |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |   |      |     |      |     |     |     |    |     |      |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    |        |      |
| Bergen Point.....                          | Coast.....      | T.            |     |   | 1.65 | .95 | .65  | .40 | .02 |     |    |     | 1.55 |     |    |    |    |    |    |    |    |    |    |    | T.  |      |     |    |    |    |    |    | 5.22   |      |
| Boonton   .....                            | Passaic.....    | .88           |     |   | .99  | .90 |      | .39 |     |     |    |     | .10  | .04 |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 3.30   |      |
| Chatham   .....                            | do.....         | .58           |     |   | .06  | .76 |      | .21 |     |     |    |     | .86  | .06 |    |    |    |    |    |    |    |    |    |    | T.  |      |     |    |    |    |    |    | 2.53   |      |
| Elizabeth.....                             | Coast.....      | .02           |     |   | 1.24 |     |      | .23 |     |     |    | .02 | .78  | .06 |    |    |    |    |    |    |    |    |    |    | T.  |      |     |    |    |    |    |    | 2.29   |      |
| Flemington.....                            | Raritan.....    |               |     |   | .72  |     |      |     |     |     |    |     | .09  |     |    |    |    |    |    |    |    |    |    |    |     | .05  |     |    |    |    |    |    |        | 0.86 |
| Highwood.....                              | Hackensack..... | .21           |     |   | 1.70 |     | .07  | .48 |     | T.  |    | .04 | 2.06 |     |    |    |    |    |    |    |    |    |    |    | T.  |      |     |    |    |    |    |    | 4.56   |      |
| Jersey City.....                           | Coast.....      |               |     |   | 1.00 |     | .40  | .02 |     | T.  |    | .16 | 1.70 |     |    |    |    |    |    |    |    |    |    |    | T.  |      |     |    |    |    |    |    | 3.28   |      |
| Kearny.....                                | Coast.....      |               |     |   |      |     |      |     |     |     |    |     |      |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    |        | 0.75 |
| Lambertville.....                          | Delaware.....   |               |     |   | .47  |     |      |     |     | T.  |    |     | .25  |     |    |    |    |    |    |    |    |    |    |    |     | .03  |     |    |    |    |    |    |        | 4.87 |
| Little Falls   .....                       | Passaic.....    | .70           |     |   | .70  | .85 |      | .52 |     |     |    |     | 1.55 | .05 |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 2.07   |      |
| Newark**.....                              | Coast.....      |               |     |   | .86  |     | .38  | .01 |     |     |    | .04 | .78  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 1.70   |      |
| New Brunswick.....                         | Raritan.....    |               |     |   | .60  |     |      |     |     |     |    | .18 | .83  |     |    |    |    |    |    |    |    |    |    |    |     | .09  |     |    |    |    |    |    |        | 4.26 |
| New Milford.....                           | Hackensack..... | .01           |     |   | 2.30 |     | .28  | .17 |     |     |    |     | 1.50 |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    |        |      |
| Paterson.....                              | Passaic.....    | *             | .36 |   | 1.76 |     | .36  |     |     |     |    | T.  | 1.10 |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 3.58   |      |
| Plainfield.....                            | Raritan.....    |               |     |   | 1.38 |     | .20  |     |     | .01 |    |     | .04  | .20 |    |    |    |    |    |    |    |    |    |    | .01 |      |     |    |    |    |    |    | 1.84   |      |
| Ridgefield**.....                          | Hackensack..... |               |     |   | 1.95 |     |      | .25 |     |     |    | .10 | 1.90 |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 4.20   |      |
| Somerville.....                            | Raritan.....    |               |     |   | 1.00 |     |      |     |     |     |    | .08 | .17  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 1.25   |      |
| South Orange.....                          | Rahway.....     | T.            |     |   | .87  |     | 1.23 | T.  |     |     |    | .23 | .06  |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 2.39   |      |
| Woodcliff Lake.....                        | Hackensack..... |               |     |   | 1.62 |     | .37  | .13 |     |     |    |     | 1.00 |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 3.12   |      |
| New York, N. Y***.....                     | Coast.....      |               |     |   | .97  |     | .38  | .02 |     | T.  |    | .15 | 1.53 |     |    |    |    |    |    |    |    |    |    |    | T.  |      |     |    |    |    |    |    | 3.05   |      |
| <i>The Southern Interior.</i>              |                 |               |     |   |      |     |      |     |     |     |    |     |      |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    |        |      |
| Belle Plain.....                           | Tuckahoe.....   | 1.09          | .02 |   | .31  | .01 |      |     |     |     |    | .02 | 1.05 |     |    |    |    |    |    |    |    |    |    |    |     | .05  |     |    |    |    |    |    | 2.55   |      |
| Bridgeton.....                             | Coast.....      |               | .05 |   | .22  |     |      |     |     |     |    |     | .35  |     |    |    |    |    |    |    |    |    |    |    | .18 |      |     |    |    |    |    |    | 0.80   |      |
| Burlington.....                            | Delaware.....   | .30           |     |   | .75  |     |      |     |     |     |    |     | .50  |     |    |    |    |    |    |    |    |    |    |    |     | .11  |     |    |    |    |    |    | 1.66   |      |
| Camp Dix   .....                           | Delaware.....   |               |     |   | .42  |     |      |     |     |     |    | .22 | .12  |     |    |    |    |    |    |    |    |    |    |    | .12 |      |     |    |    |    |    |    | 0.88   |      |
| Hammonton.....                             | Mullica.....    |               |     |   | .45  |     |      |     |     |     |    |     | .78  |     |    |    |    |    |    |    |    |    |    |    |     | .14  |     |    |    |    |    |    | 1.37   |      |
| Hightstown.....                            | Raritan.....    | .02           |     |   | .55  |     |      | T.  |     |     |    | .30 | .54  |     |    |    |    |    |    |    |    |    |    |    |     | .09  |     |    |    |    |    |    | 1.50   |      |
| Imlaystown.....                            | Delaware.....   | 1.19          | .02 |   | .37  | T.  |      | .03 |     |     |    | .51 | .10  |     |    |    |    |    |    |    |    |    |    |    |     | .06  |     |    |    |    |    |    | 2.28   |      |
| Indian Mills.....                          | Mullica.....    |               |     |   | 1.14 |     |      |     |     |     |    | T.  | .48  |     |    |    |    |    |    |    |    |    |    |    |     | .12  |     |    |    |    |    |    | 1.74   |      |
| Lakewood.....                              | Metedeconk..... |               |     |   | .20  |     |      |     |     |     |    | .20 | .40  |     |    |    |    |    |    |    |    |    |    |    |     | .07  |     |    |    |    |    |    | 0.87   |      |
| Lumberton.....                             | Delaware.....   |               | T.  |   | 1.77 |     |      |     |     |     |    | .03 | .85  |     |    |    |    |    |    |    |    |    |    |    |     | .05  |     |    |    |    |    |    | 2.70   |      |
| Moorestown.....                            | Delaware.....   |               |     |   | 1.11 |     |      |     |     |     |    |     | .71  |     |    |    |    |    |    |    |    |    |    |    | .16 |      |     |    |    |    |    |    | 1.98   |      |
| Northfield.....                            | Coast.....      | .35           |     |   | .44  |     |      |     |     |     |    |     | .48  |     |    |    |    |    |    |    |    |    |    |    |     |      | .07 |    |    |    |    |    | 1.34   |      |
| Pleasantville.....                         | Coast.....      |               |     |   | .16  |     |      |     |     |     |    | .02 | .45  |     |    |    |    |    |    |    |    |    |    |    |     | .10  |     |    |    |    |    |    | 0.73   |      |
| Trenton***.....                            | Delaware.....   |               |     |   | .91  |     |      | T.  |     | T.  |    | T.  | .84  |     |    |    |    |    |    |    |    |    |    |    | T.  |      |     |    |    |    |    |    | 1.75   |      |
| Tuckerton.....                             | Coast.....      |               |     |   | .74  |     |      |     |     |     |    | .17 | .77  |     |    |    |    |    |    |    |    |    |    |    |     | .04  |     |    |    |    |    |    | 1.72   |      |
| Vineland.....                              | Maurice.....    | 1.13          |     |   | *    |     |      |     |     |     |    |     | *    |     |    |    |    |    |    |    |    |    |    |    |     | 1.24 |     |    |    |    |    |    | 2.37   |      |
| Philadelphia, Pa.....                      | Delaware.....   |               |     |   | .49  |     |      |     |     |     |    | .02 | .67  |     |    |    |    |    |    |    |    |    |    |    |     | .05  |     |    |    |    |    |    | 1.23   |      |
| <i>The Sea Coast.</i>                      |                 |               |     |   |      |     |      |     |     |     |    |     |      |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    |        |      |
| Asbury Park.....                           | Coast.....      |               |     |   | 1.22 |     |      |     |     |     |    | .02 | .19  |     |    |    |    | T. |    |    |    |    |    |    |     |      | .10 |    |    |    |    |    | 1.53   |      |
| Atlantic City**.....                       | do.....         |               |     |   | .41  |     |      |     |     |     |    | .09 | .50  |     |    |    |    | T. |    |    |    |    |    |    |     | .15  |     |    |    |    |    |    | 1.15   |      |
| Cape May City.....                         | do.....         | .01           | .36 |   |      |     |      |     |     |     |    |     | 1.70 |     |    |    |    |    |    |    |    |    |    |    |     |      |     |    |    |    |    |    | 2.07   |      |
| Long Branch**.....                         | do.....         |               |     |   | .39  |     |      |     |     |     |    |     | .11  |     |    |    |    |    |    |    |    |    |    |    |     | .09  |     |    |    |    |    |    | 0.59   |      |
| Sandy Hook***.....                         | do.....         |               |     |   | .45  |     | .45  |     |     |     |    | .04 | .05  |     |    |    |    |    |    |    |    |    |    |    |     | .10  |     |    |    |    |    |    | 1.09   |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ‡ Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                    |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                    |
| Atlantic City.....    | 30.13         | 30.45    | 26    | 29.79   | 24    | 14               | 48              | ne.        | 21        | 82                                         | 79                                         | 73                                 |
| Cape May City.....    | 30.16         | 30.47    | 26    | 29.84   | 24    | 7                | 24              | ne.        | 21        | 85                                         | 82                                         | .....                              |
| Long Branch.....      |               |          |       |         |       |                  | 33              | ne.        | 21§       |                                            |                                            |                                    |
| Newark.....           |               |          |       |         |       |                  |                 |            |           | 66*                                        | 62†                                        | 67                                 |
| New York, N. Y.....   | 30.13         | 30.47    | 19    | 29.72   | 24    | 10               | 52              | nw.        | 24        | 82                                         | 71                                         | 66                                 |
| Philadelphia, Pa..... | 30.14         | 30.49    | 26    | 29.75   | 24    | 8                | 26              | ne.        | 24        | 76                                         | 67                                         | 63                                 |
| Ridgefield.....       | 30.13         | 30.48    | 19    | 29.73   | 24    |                  |                 |            |           |                                            |                                            |                                    |
| Sandy Hook.....       | 30.12         | 30.47    | 26    | 29.71   | 24    | 12               | 44              | nw.        | 25        | 80                                         | 76                                         | 73                                 |
| Trenton.....          | 30.12         | 30.47    | 26    | 29.74   | 24    | 8                | 29              | nw.        | 24        | 80                                         | 73                                         | 69                                 |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for September, 1922.

| Stations.                                   | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30                | 31                | Mean.             |
|---------------------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| <i>The Highlands and Kittatinny Valley.</i> |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                              | Maximum... | 80 | 78 | 80 | 75 | 83 | 90 | 71 | 74 | 78 | 85 | 81 | 73 | 77 | 73 | 87 | 79 | 72 | 71 | 73 | 77 | 85 | 80 | 85 | 86 | 71 | 71 | 76 | 79 | 75                | 80                | 78.2              |
|                                             | Minimum... | 54 | 54 | 66 | 68 | 56 | 58 | 58 | 61 | 64 | 64 | 65 | 62 | 48 | 55 | 60 | 59 | 46 | 42 | 40 | 60 | 61 | 50 | 48 | 62 | 57 | 35 | 36 | 40 | 50                | 50                | 54.4 <sup>a</sup> |
| Charlotteburg.....                          | Maximum... | 79 | 70 | 78 | 78 | 85 | 90 | 70 | 70 | 82 | 79 | 72 | 76 | 81 | 83 | 73 | 68 | 65 | 66 | 72 | 74 | 78 | 82 | 84 | 62 | 65 | 75 | 77 | 79 | 82                | 75.3              |                   |
|                                             | Minimum... | 47 | 53 | 55 | 66 | 54 | 52 | 56 | 51 | 59 | 58 | 59 | 65 | 48 | 49 | 58 | 57 | 46 | 36 | 30 | 38 | 43 | 38 | 43 | 43 | 41 | 27 | 30 | 36 | 51                | 48                | 47.9              |
| Dover.....                                  | Maximum... | 79 | 76 | 78 | 72 | 86 | 91 | 72 | 69 | 73 | 81 | 78 | 74 | 78 | 83 | 84 | 78 | 71 | 67 | 67 | 72 | 74 | 73 | 81 | 84 | 69 | 68 | 76 | 70 | 79                | 79                | 76.1              |
|                                             | Minimum... | 52 | 59 | 66 | 63 | 59 | 58 | 61 | 55 | 63 | 68 | 64 | 60 | 50 | 55 | 64 | 54 | 48 | 43 | 38 | 37 | 52 | 45 | 48 | 49 | 43 | 33 | 37 | 42 | 54                | 51                | 52.4              |
| Layton.....                                 | Maximum... | 78 | 79 | 77 | 80 | 87 | 94 | 74 | 70 | 76 | 83 | 81 | 73 | 79 | 82 | 85 | 75 | 70 | 65 | 73 | 72 | 79 | 83 | 86 | 76 | 66 | 75 | 78 | 81 | 83                | 79                | 77.9 <sup>a</sup> |
|                                             | Minimum... | 51 | 59 | 64 | 62 | 56 | 55 | 58 | 60 | 63 | 66 | 67 | 62 | 45 | 52 | 63 | 55 | 40 | 37 | 34 | 54 | 51 | 47 | 52 | 50 | 39 | 29 | 32 | 34 | 46                | 50                | 51.1              |
| Newton.....                                 | Maximum... | 80 | 78 | 77 | 75 | 85 | 90 | 80 | 70 | 73 | 81 | 80 | 75 | 76 | 82 | 84 | 79 | 69 | 63 | 68 | 72 | 73 | 77 | 84 | 80 | 69 | 64 | 75 | 78 | 82                | 76.7              |                   |
|                                             | Minimum... | 52 | 61 | 61 | 66 | 57 | 60 | 55 | 60 | 63 | 67 | 62 | 60 | 62 | 56 | 63 | 58 | 47 | 42 | 39 | 50 | 54 | 48 | 49 | 49 | 44 | 33 | 41 | 44 | 53                | 49                | 53.5              |
| Phillipsburg.....                           | Maximum... | 80 | 78 | 77 | 75 | 85 | 90 | 80 | 70 | 73 | 81 | 80 | 75 | 76 | 82 | 84 | 79 | 69 | 63 | 68 | 72 | 73 | 77 | 84 | 80 | 69 | 64 | 75 | 78 | 82                | 76.7              |                   |
|                                             | Minimum... | 54 | 54 | 66 | 68 | 56 | 58 | 58 | 61 | 64 | 64 | 65 | 62 | 48 | 55 | 60 | 59 | 46 | 42 | 40 | 60 | 61 | 50 | 48 | 62 | 57 | 35 | 36 | 40 | 50                | 50                | 54.4 <sup>a</sup> |
| Sussex.....                                 | Maximum... | 81 | 80 | 79 | 79 | 88 | 93 | 78 | 73 | 75 | 84 | 83 | 72 | 79 | 78 | 87 | 78 | 69 | 67 | 67 | 73 | 75 | 77 | 83 | 82 | 84 | 88 | 73 | 82 | 80                | 83                | 79.9 <sup>a</sup> |
|                                             | Minimum... | 54 | 57 | 65 | 66 | 53 | 56 | 55 | 58 | 63 | 68 | 63 | 64 | 63 | 52 | 59 | 42 | 40 | 40 | 40 | 45 | 53 | 48 | 41 | 29 | 35 | 36 | 58 | 58 | 54.9 <sup>a</sup> |                   |                   |
| <i>The Red Sandstone Plain.</i>             |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                           | Maximum... | 77 | 79 | 84 | 74 | 89 | 71 | 73 | 79 | 75 | 77 | 85 | 81 | 79 | 71 | 66 | 69 | 72 | 78 | 73 | 72 | 83 | 75 | 65 | 68 | 74 | 70 | 70 | 70 | 70                | 75.3 <sup>a</sup> |                   |
|                                             | Minimum... | 69 | 67 | 64 | 64 | 62 | 64 | 62 | 64 | 63 | 66 | 59 | 67 | 61 | 66 | 71 | 55 | 50 | 50 | 59 | 59 | 59 | 52 | 55 | 50 | 42 | 46 | 56 | 58 | 58                | 59.2 <sup>b</sup> |                   |
| Boonton§§.....                              | Maximum... | 83 | 79 | 84 | 77 | 88 | 90 | 64 | 73 | 74 | 82 | 79 | 74 | 75 | 81 | 83 | 78 | 71 | 69 | 69 | 70 | 76 | 78 | 85 | 84 | 64 | 66 | 75 | 74 | 77                | 82                | 76.8              |
|                                             | Minimum... | 51 | 57 | 50 | 53 | 57 | 60 | 53 | 58 | 64 | 60 | 65 | 50 | 52 | 56 | 58 | 46 | 45 | 36 | 43 | 47 | 48 | 44 | 46 | 46 | 30 | 34 | 38 | 50 | 46                | 49.8 <sup>a</sup> |                   |
| Elizabeth.....                              | Maximum... | 81 | 80 | 85 | 77 | 89 | 94 | 91 | 77 | 78 | 85 | 79 | 77 | 79 | 87 | 89 | 87 | 75 | 70 | 73 | 73 | 77 | 79 | 85 | 87 | 78 | 70 | 77 | 73 | 80                | 86                | 80.6              |
|                                             | Minimum... | 57 | 60 | 68 | 67 | 58 | 61 | 64 | 55 | 62 | 68 | 64 | 67 | 52 | 56 | 62 | 63 | 49 | 44 | 44 | 50 | 55 | 51 | 49 | 52 | 48 | 37 | 41 | 48 | 53                | 53                | 55.4              |
| Flemington.....                             | Maximum... | 81 | 80 | 83 | 83 | 91 | 94 | 83 | 73 | 77 | 82 | 83 | 77 | 81 | 86 | 87 | 78 | 71 | 67 | 72 | 75 | 75 | 78 | 88 | 90 | 85 | 70 | 80 | 75 | 78                | 85                | 80.3              |
|                                             | Minimum... | 55 | 63 | 68 | 70 | 60 | 59 | 64 | 60 | 65 | 68 | 65 | 65 | 52 | 55 | 59 | 63 | 53 | 47 | 43 | 49 | 55 | 50 | 48 | 49 | 47 | 35 | 39 | 42 | 49                | 47                | 54.8              |
| Highwood.....                               | Maximum... | 76 | 77 | 81 | 74 | 80 | 89 | 72 | 74 | 73 | 80 | 74 | 72 | 74 | 81 | 84 | 74 | 67 | 64 | 67 | 69 | 73 | 78 | 82 | 72 | 64 | 73 | 68 | 75 | 79                | 74.6              |                   |
|                                             | Minimum... | 56 | 58 | 66 | 64 | 56 | 58 | 62 | 54 | 64 | 67 | 64 | 65 | 50 | 58 | 65 | 61 | 47 | 44 | 39 | 50 | 52 | 49 | 46 | 44 | 32 | 40 | 41 | 52 | 52                | 53.7 <sup>a</sup> |                   |
| Jersey City.....                            | Maximum... | 80 | 78 | 80 | 75 | 87 | 93 | 68 | 78 | 76 | 84 | 78 | 75 | 78 | 84 | 85 | 79 | 72 | 69 | 69 | 72 | 75 | 78 | 83 | 87 | 68 | 65 | 76 | 71 | 76                | 82                | 77.4              |
|                                             | Minimum... | 62 | 66 | 67 | 65 | 64 | 67 | 65 | 60 | 66 | 70 | 68 | 66 | 56 | 62 | 67 | 60 | 55 | 54 | 60 | 62 | 58 | 59 | 60 | 50 | 44 | 49 | 58 | 50 | 58                | 60.3              |                   |
| Lambertville.....                           | Maximum... | 81 | 80 | 83 | 76 | 86 | 92 | 79 | 74 | 78 | 82 | 82 | 76 | 77 | 85 | 86 | 77 | 71 | 67 | 72 | 72 | 74 | 77 | 84 | 85 | 74 | 67 | 75 | 74 | 76                | 82                | 78.1              |
|                                             | Minimum... | 56 | 63 | 67 | 64 | 61 | 65 | 64 | 59 | 64 | 68 | 65 | 62 | 51 | 56 | 61 | 58 | 52 | 46 | 45 | 50 | 57 | 52 | 53 | 54 | 48 | 34 | 42 | 48 | 51                | 53                | 55.6              |
| Little Falls§§.....                         | Maximum... | 83 | 80 | 82 | 76 | 89 | 93 | 65 | 76 | 80 | 84 | 79 | 77 | 78 | 85 | 88 | 80 | 72 | 69 | 70 | 74 | 77 | 80 | 86 | 87 | 67 | 67 | 77 | 73 | 82                | 85                | 78.7              |
|                                             | Minimum... | 55 | 59 | 66 | 69 | 58 | 61 | 55 | 63 | 66 | 63 | 66 | 51 | 55 | 62 | 62 | 48 | 43 | 39 | 48 | 50 | 47 | 47 | 48 | 47 | 34 | 38 | 41 | 54 | 50                | 53.3 <sup>a</sup> |                   |
| Newark.....                                 | Maximum... | 80 | 77 | 82 | 72 | 88 | 93 | 71 | 75 | 74 | 81 | 76 | 75 | 77 | 85 | 87 | 78 | 70 | 62 | 68 | 72 | 75 | 79 | 83 | 86 | 65 | 66 | 75 | 69 | 77                | 83                | 76.7              |
|                                             | Minimum... | 68 | 64 | 68 | 66 | 63 | 68 | 62 | 61 | 66 | 69 | 68 | 62 | 58 | 60 | 66 | 61 | 54 | 46 | 44 | 55 | 58 | 55 | 56 | 59 | 46 | 42 | 48 | 51 | 57                | 57                | 58.6              |
| New Brunswick.....                          | Maximum... | 79 | 78 | 82 | 78 | 85 | 92 | 86 | 74 | 76 | 81 | 79 | 75 | 76 | 83 | 84 | 77 | 71 | 67 | 69 | 73 | 75 | 81 | 86 | 83 | 66 | 76 | 71 | 76 | 82                | 77.8              |                   |
|                                             | Minimum... | 55 | 60 | 64 | 68 | 59 | 61 | 63 | 57 | 61 | 68 | 63 | 66 | 52 | 57 | 62 | 64 | 51 | 48 | 45 | 50 | 56 | 52 | 48 | 35 | 40 | 44 | 51 | 50 | 54                | 54.9              |                   |
| Paterson.....                               | Maximum... | 81 | 81 | 81 | 78 | 87 | 94 | 87 | 76 | 74 | 84 | 77 | 75 | 79 | 86 | 88 | 82 | 72 | 70 | 69 | 73 | 78 | 83 | 87 | 75 | 69 | 78 | 73 | 81 | 83                | 79.3              |                   |
|                                             | Minimum... | 57 | 61 | 69 | 65 | 60 | 62 | 61 | 64 | 67 | 65 | 66 | 53 | 57 | 63 | 63 | 50 | 47 | 43 | 51 | 53 | 52 | 51 | 54 | 47 | 37 | 44 | 47 | 56 | 53                | 59.3 <sup>a</sup> |                   |
| Plainfield.....                             | Maximum... | 80 | 78 | 80 | 77 | 87 | 92 | 80 | 74 | 75 | 82 | 80 | 78 | 77 | 84 | 86 | 80 | 74 | 68 | 69 | 73 | 75 | 79 | 85 | 86 | 68 | 67 | 76 | 71 | 77                | 83                | 78.0              |
|                                             | Minimum... | 54 | 58 | 62 | 64 | 54 | 58 | 63 | 55 | 62 | 65 | 61 | 65 | 52 | 53 | 57 | 52 | 46 | 39 | 47 | 55 | 49 | 46 | 48 | 45 | 33 | 37 | 39 | 51 | 47                | 47                | 52.5              |
| Ridgefield.....                             | Maximum... | 80 | 77 | 83 | 72 | 85 | 90 | 68 | 75 | 76 | 82 | 76 | 76 | 76 | 83 | 84 | 77 | 71 | 66 | 68 | 71 | 74 | 77 | 81 | 85 | 66 | 64 | 74 | 66 | 77                | 81                | 76.0              |
|                                             | Minimum... | 57 | 60 | 66 | 62 | 57 | 61 | 62 | 55 | 65 | 68 | 65 | 64 | 52 | 59 | 65 | 59 | 50 | 45 | 52 | 54 | 50 | 49 | 52 | 44 | 35 | 45 | 44 | 54 | 52                | 54.8              |                   |
| Somerville.....                             | Maximum... | 83 | 81 | 83 | 79 | 89 | 94 | 81 | 75 | 77 | 83 | 86 | 79 | 79 | 86 | 88 | 81 | 76 | 72 | 72 | 74 | 77 | 81 | 86 | 88 | 75 | 69 | 78 | 74 | 79                | 85                | 80.3              |
|                                             | Minimum... | 54 | 61 | 66 | 69 | 58 | 58 | 65 | 67 | 65 | 67 | 63 | 67 | 48 | 53 | 60 | 61 | 48 | 48 | 41 | 47 | 54 | 50 | 48 | 49 | 45 | 33 | 38 | 44 | 48                | 48                | 53.5              |
| South Orange.....                           | Maximum... | 77 | 77 | 81 | 74 | 82 | 88 | 72 | 74 | 75 | 80 | 73 | 74 | 73 | 80 | 82 | 75 | 68 | 66 | 70 | 73 | 74 | 79 | 81 | 63 | 66 | 62 | 67 | 74 | 78                | 74.1              |                   |
|                                             | Minimum... | 57 | 51 | 67 | 65 | 60 | 62 | 56 | 63 | 67 | 64 | 66 | 54 | 57 | 65 | 59 | 54 | 49 | 47 | 51 | 56 | 54 | 52 | 54 | 49 | 37 | 37 | 40 | 56 | 55                | 55.5              |                   |
| New York, N. Y.....                         | Maximum... | 77 | 75 | 80 | 71 | 85 | 89 | 70 | 72 | 73 | 79 | 75 | 72 | 74 | 81 | 82 | 75 | 69 |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVII.

OCTOBER, 1922.

No. 10.

### GENERAL SUMMARY.

The weather of October was somewhat milder than normal, and considerably drier, with a moderate excess of sunshine and clear sky. A warm period the first week equalled the records of some districts for October, but there were no notably cold periods. The first day of killing frost occurred near the normal date, over the greater portion of the State. The lowest temperatures occurred over the northern counties, and the highest in the southwestern part of the State, which was also the region of least rainfall. The amount of rain was appreciably deficient and was a little below usual frequency. There were meagre showers from the 7th to the 11th, although with some interruptions. On the 15th there were rains in southern districts, and there were scattering amounts on the 17th but they did not amount to much. On the 23d-25th there were showers of good volume on the coast and in northeastern districts.

This deficiency in rain, following similar conditions in September, has developed into a drought of considerable severity. The Delaware River has been as low as has been recorded in nearly 18 years, and wells and springs have become dry, so that farmers have had to haul water for stock. This drought also impeded germination of fall sown grass and grain.

The fine open weather afforded the best opportunity for outdoor occupations, and farm work was brought forward, as well as all other operations in the open, under exceptionally favorable circumstances.

Storm warnings were displayed along the coast on the 7th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 56.6°, which was 1.6° above the normal. The highest temperature was 92° at Elizabeth on the 2d, Phillipsburg on the 4th, and Somerville on the 2d and 6th, and the lowest, 18° at Charlotteburg and Layton on 21st. The highest monthly mean temperature was 60.1° at Cape May City, and the lowest, 52.4° at Charlotteburg. The greatest daily range of temperature was 55° at Phillipsburg on the 2d.

The temperature departure from the normal for the year 1922, to date, by sections, is: The Highlands, +1.3°; Red Sandstone Plain, +0.9°; Southern Interior, +1.4°; Sea Coast, +1.4°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 47 stations, was 1.48 inches, which was 2.25 inches below the normal. The greatest monthly rainfall was 2.70 inches at Charlotteburg, and the least, 0.55 inch at Somerville. The greatest amount of rain in any 24 consecutive hours was 1.13 inches at South Orange on the 7th-8th. The mean of the number of days on which 0.01 inch or more of rain fell was 7, or 1 less than the normal. Traces of snow fell at Culvers Lake on the 24th and 26th, Newton on the 23d, and South Orange on the 24th.

The precipitation accumulated departure from the normal for the year 1922 to date, by sections, is: The Highlands, -2.43 inches; Red Sandstone Plain, -0.77 inch; Southern Interior, -4.44 inches; Sea Coast, -4.21 inches.

The prevailing wind direction was from the northwest, with an average velocity of 13 miles per hour, which was one mile above the normal. The highest velocity, sustained for 5 consecutive minutes, was 50 miles per hour from the south at Sandy Hook on the 23d. High winds occurred also on the 11th, 17th, 24th, and 26th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 19, or 5 more than the normal; partly cloudy, 6, or 2 less than the normal; cloudy, 6, or 3 less than the normal. The per cent of possible sunshine was 70, which was 7 per cent above the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.02 inches, which was 0.05 inch below the normal. The highest reading was 30.48 inches at Cape May City on the 13th, and the lowest, 29.51 inches at Sandy Hook on the 25th.

The mean stage of the Delaware River at Phillipsburg was 1.2 feet, and the highest stage, 2.0 feet on the 5th. At Trenton the mean stage was 0.3 foot, which was 1.1 feet below the normal. The highest stage, 1.2 feet, occurred on the 14th.

Thunderstorms occurred in some portions of the State on the 8th, 23d, and 24th. Dense fog was noted on the 1st, 2d, 4th, 5th, 6th, 7th, 9th, 10th, 16th, 17th, 22d, 23d, and 24th. Lunar halos were observed on the 2d, 5th, 6th, and 14th, and solar halos on the 2d, 6th, 9th, 14th, 15th, 17th, and 28th. The aurora was observed on the 30th. Killing frost occurred in all portions of the State, excepting along the coast, on the 19th, and 20th, and at a few stations in northern districts on the 14th.

### ERRATA.

August 1922:—Page 30: Moorestown, total precipitation should read 4.68 inches instead of 3.88 inches; departure from normal, -0.21 inch instead of -0.88; rainy days 10, instead of 9. Page 31: Moorestown, rainfall on 31st should read 0.40 instead of 0, and monthly total 4.68.

### COMPARATIVE DATA FOR OCTOBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                         |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|-------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | 0.01 inch or more prec. |
| 1885..... | 54.2         | 82       | 29      | 4.20           | 5.85      | 2.91   | .....        | .....          | .....   | .....                   |
| 1886..... | 55.6         | 88       | 21      | 3.22           | 8.16      | 2.02   | .....        | .....          | .....   | .....                   |
| 1887..... | 52.3         | 89       | 21      | 2.61           | 5.00      | 1.58   | .....        | .....          | .....   | 7                       |
| 1888..... | 49.2         | 73       | 25      | 4.73           | 7.00      | 2.97   | .....        | .....          | 10      | 12                      |
| 1889..... | 50.8         | 82       | 23      | 3.80           | 5.03      | 2.42   | .....        | .....          | 12      | 11                      |
| 1890..... | 53.9         | 81       | 24      | 6.33           | 10.18     | 3.40   | 9            | 8              | 14      | 13                      |
| 1891..... | 52.8         | 92       | 18      | 3.44           | 5.57      | 1.88   | 11           | 11             | 9       | 8                       |
| 1892..... | 53.6         | 85       | 21      | 0.52           | 1.09      | 0.04   | 14           | 12             | 5       | 4                       |
| 1893..... | 55.2         | 85       | 17      | 4.22           | 6.59      | 1.74   | 15           | 7              | 9       | 7                       |
| 1894..... | 55.3         | 87       | 27      | 5.67           | 8.23      | 3.90   | 12           | 7              | 12      | 10                      |
| 1895..... | 49.9         | 83       | 18      | 3.60           | 5.53      | 1.62   | 19           | 7              | 5       | 5                       |
| 1896..... | 51.5         | 82       | 21      | 2.24           | 4.58      | 1.72   | 11           | 8              | 12      | 8                       |
| 1897..... | 55.8         | 95       | 22      | 2.43           | 6.49      | 0.87   | 14           | 8              | 9       | 7                       |
| 1898..... | 56.5         | 88       | 24      | 5.76           | 8.42      | 3.92   | 13           | 9              | 9       | 10                      |
| 1899..... | 56.6         | 86       | 18      | 2.72           | 4.65      | 1.07   | 13           | 10             | 8       | 6                       |
| 1900..... | 59.9         | 92       | 19      | 3.70           | 6.59      | 1.47   | 10           | 8              | 13      | 10                      |
| 1901..... | 54.4         | 82       | 21      | 1.93           | 4.45      | 0.87   | 17           | 8              | 6       | 4                       |
| 1902..... | 56.0         | 80       | 20      | 6.39           | 9.35      | 3.82   | 15           | 7              | 9       | 8                       |
| 1903..... | 55.9         | 86       | 24      | 8.92           | 16.19     | 4.17   | 13           | 9              | 9       | 8                       |
| 1904..... | 51.9         | 89       | 15      | 3.78           | 7.01      | 1.50   | 20           | 6              | 5       | 5                       |
| 1905..... | 55.5         | 90       | 17      | 2.71           | 4.83      | 0.75   | 18           | 7              | 6       | 7                       |
| 1906..... | 55.0         | 80       | 11      | 4.46           | 7.14      | 2.66   | 8            | 9              | 14      | 11                      |
| 1907..... | 50.6         | 80       | 18      | 4.46           | 7.18      | 2.70   | 22           | 5              | 4       | 7                       |
| 1908..... | 57.3         | 92       | 19      | 2.71           | 5.14      | 1.30   | 15           | 5              | 11      | 8                       |
| 1909..... | 51.2         | 84       | 18      | 1.18           | 1.82      | 0.40   | 17           | 7              | 7       | 8                       |
| 1910..... | 57.2         | 90       | 18      | 3.15           | 5.55      | 1.55   | 15           | 8              | 8       | 7                       |
| 1911..... | 53.9         | 80       | 18      | 5.49           | 8.23      | 2.61   | 10           | 9              | 12      | 12                      |
| 1912..... | 57.0         | 88       | 25      | 3.30           | 6.95      | 1.72   | 17           | 8              | 6       | 5                       |
| 1913..... | 57.8         | 83       | 25      | 7.79           | 13.84     | 2.70   | 12           | 9              | 10      | 11                      |
| 1914..... | 58.1         | 88       | 19      | 1.99           | 3.08      | 0.90   | 13           | 9              | 9       | 5                       |
| 1915..... | 56.2         | 84       | 23      | 3.03           | 5.18      | 1.89   | 17           | 7              | 7       | 9                       |
| 1916..... | 55.1         | 92       | 23      | 1.37           | 2.38      | 0.51   | 18           | 8              | 5       | 4                       |
| 1917..... | 50.7         | 84       | 22      | 6.99           | 9.74      | 4.28   | 15           | 8              | 8       | 10                      |
| 1918..... | 57.0         | 84       | 22      | 1.25           | 2.36      | 0.74   | 16           | 9              | 6       | 8                       |
| 1919..... | 59.0         | 92       | 25      | 3.43           | 4.97      | 2.01   | 9            | 8              | 14      | 13                      |
| 1920..... | 59.0         | 87       | 28      | 1.80           | 4.53      | 0.55   | 20           | 5              | 6       | 5                       |
| 1921..... | 54.1         | 82       | 16      | 0.97           | 2.18      | 0.33   | 13           | 7              | 6       | 5                       |
| 1922..... | 56.6         | 92       | 18      | 1.48           | 2.70      | 0.55   | 19           | 6              | 6       | 7                       |



## Climatological Data for October, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                                                                                                                                   |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                                                                                                                           |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                                   |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 55.9 <sup>a</sup>             | +2.1                       | 88       | 6     | 23      | 21    | 41                        | 1.52   | -2.15                      | 0.47                  | 0                          | 5                              | 22     | 3           | 6                             | .....      | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                                  |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 52.4                          | +0.8                       | 87       | 2     | 18      | 21    | 48                        | 2.70   | -1.77                      | 0.94                  | 0                          | 5                              | 13     | 7           | 6                             | w.         |                                                                                                                                   |
| Culvers Lake†.....                          | Sussex.....     | 843              | 21                       | 53.3 <sup>b</sup>             | +2.0                       | 89       | 6     | 22      | 21    | 41                        | 2.03   | -2.15                      | 0.97                  | T.                         | 10                             | 20     | 4           | 7                             | s.         |                                                                                                                                   |
| Dover.....                                  | Morris.....     | 600              | 38                       | 53.3 <sup>b</sup>             | +2.0                       | 89       | 6     | 22      | 21    | 41                        | 1.34   | -2.73                      | 0.57                  | 0                          | 6                              | 13     | 12          | 6                             | .....      |                                                                                                                                   |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 53.1                          | +1.6                       | 91       | 6     | 18      | 21    | 44                        | 2.06   | -1.56                      | 0.62                  | 0                          | 7                              | 20     | 4           | 7                             | nw.        |                                                                                                                                   |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 54.9                          | +2.2                       | 87       | 6     | 24      | 21    | 35                        | 1.94   | -1.69                      | 0.47                  | T.                         | 8                              | 21     | 5           | 5                             | sw.        | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                                        |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 56.2 <sup>b</sup>             | +2.3                       | 92       | 4     | 24      | 21    | 55                        | 1.07   | -2.49                      | 0.36                  | 0                          | 7                              | 21     | 5           | 5                             | .....      |                                                                                                                                   |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 55.1 <sup>b</sup>             | +1.9                       | 90       | 6     | 23      | 19    | 47                        | 1.75   | -1.69                      | 0.46                  | 0                          | 6                              | 20     | 5           | 6                             | sw.        |                                                                                                                                   |
| Means and extremes...                       |                 |                  |                          | 54.4                          | +1.8                       | 92       | 4     | 18      | 21    | 55                        | 1.80   | -2.03                      | 0.97                  | 0                          | 7                              | 19     | 6           | 6                             | sw.        |                                                                                                                                   |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                                   |
| Bergen Point††.....                         | Hudson.....     | 37               | 25                       | 58.0 <sup>b</sup>             | +1.8                       | 83       | 1†    | 33      | 21    | 31                        | 1.61   | -3.06                      | 0.67                  | 0                          | 6                              | 9      | 19          | 3                             | nw.        | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                        |
| Boonton.....                                | Morris.....     | 400              | 32                       | 53.8                          | +1.0                       | 88       | 2     | 20      | 21    | 47                        | 1.86   | -2.05                      | 0.55                  | 0                          | 5                              | 23     | 1           | 7                             | sw.        |                                                                                                                                   |
| Chatham.....                                | Morris.....     | 185              | 18                       | 53.8                          | +1.0                       | 88       | 2     | 20      | 21    | 47                        | 1.63   | -2.58                      | 0.52                  | 0                          | 6                              | 26     | 2           | 3                             | .....      |                                                                                                                                   |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 57.5                          | +2.1                       | 92       | 2     | 25      | 21    | 42                        | 1.13   | -2.76                      | 0.41                  | 0                          | 6                              | 18     | 9           | 4                             | sw.        |                                                                                                                                   |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 57.4                          | +1.4                       | 91       | 2†    | 23      | 21    | 45                        | 1.00   | -2.66                      | 0.27                  | 0                          | 6                              | 22     | 6           | 3                             | s.         | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                                  |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 53.7                          | +0.3                       | 86       | 5     | 23      | 21    | 36                        | 1.79   | -2.63                      | 0.66                  | 0                          | 5                              | 18     | 5           | 8                             | nw.        |                                                                                                                                   |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 58.2                          | +1.9                       | 88       | 5     | 34      | 21†   | 28                        | 1.24   | -2.44                      | 0.34                  | 0                          | 7                              | 20     | 8           | 3                             | nw.        |                                                                                                                                   |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 56.8                          | +2.2                       | 88       | 5     | 25      | 30    | 32                        | 1.11   | -2.37                      | 0.46                  | 0                          | 8                              | 21     | 6           | 4                             | nw.        |                                                                                                                                   |
| Little Falls.....                           | Passaic.....    | 180              | 51                       | 56.5                          | +1.6                       | 90       | 2     | 23      | 21    | 46                        | 1.75   | -2.76                      | 0.58                  | 0                          | 5                              | 19     | 4           | 8                             | nw.        | Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                                 |
| Newark.....                                 | Essex.....      | 159              | 80                       | 56.9                          | +1.1                       | 88       | 5     | 32      | 21    | 33                        | 1.91   | -1.96                      | 0.67                  | 0                          | 6                              | 20     | 3           | 8                             | sw.        |                                                                                                                                   |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 56.9                          | +2.1                       | 90       | 5     | 25      | 21    | 42                        | 1.67   | -1.91                      | 0.53                  | 0                          | 7                              | 23     | 5           | 3                             | w.         |                                                                                                                                   |
| New Milford††.....                          | Bergen.....     |                  | 2                        |                               |                            |          |       |         |       |                           | 1.42   |                            | 0.51                  | 0                          | 6                              |        |             |                               | .....      |                                                                                                                                   |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 58.2                          | +3.0                       | 89       | 5     | 29      | 21    | 35                        | 1.80   | -2.29                      | 1.02                  | 0                          | 5                              | 14     | 3           | 14                            | nw.        | Marion T. Probert.<br>E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.                                                      |
| Plainfield.....                             | Union.....      | 120              | 34                       | 54.9                          | +0.7                       | 89       | 2†    | 22      | 21    | 46                        | 1.55   | -2.60                      | 0.67                  | 0                          | 5                              | 20     | 8           | 3                             | nw.        |                                                                                                                                   |
| Ridgefield††.....                           | Bergen.....     | 70               | 7                        | 54.9                          |                            | 87       | 5     | 26      | 21    | 38                        | 1.47   |                            | 0.72                  | 0                          | 5                              | 18     | 8           | 5                             | nw.        |                                                                                                                                   |
| Somerville.....                             | Somerset.....   | 70               | 39                       | 56.0                          | +1.7                       | 92       | 2†    | 22      | 21    | 47                        | 0.55   | -2.89                      | 0.22                  | 0                          | 6                              | 22     | 8           | 1                             | nw.        |                                                                                                                                   |
| South Orange.....                           | Essex.....      | 200              | 52                       | 55.2 <sup>a</sup>             | +1.8                       | 84       | 5     | 29      | 21    | 30                        | 2.37   | -1.47                      | 1.13                  | T.                         | 6                              | 20     | 7           | 4                             | sw.        | Wm. H. Meeder.<br>Hackensack Water Co.<br>U. S. Weather Bureau.                                                                   |
| Woodcliff Lake††.....                       | Bergen.....     |                  | 2                        |                               |                            |          |       |         |       |                           | 1.61   |                            | 0.58                  | 0                          | 6                              |        |             |                               | .....      |                                                                                                                                   |
| New York, N. Y.....                         |                 | 365              | 52                       | 57.6                          | +2.0                       | 87       | 5     | 34      | 27    | 24                        | 1.17   | -2.54                      | 0.38                  | 0                          | 8                              | 18     | 5           | 8                             | nw.        |                                                                                                                                   |
| Means and extremes...                       |                 |                  |                          | 56.3                          | +1.6                       | 92       | 2†    | 20      | 21    | 47                        | 1.53   | -2.43                      | 1.13                  | 0                          | 6                              | 20     | 6           | 5                             | nw.        |                                                                                                                                   |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                                   |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 56.6                          | +0.3                       | 88       | 5     | 20      | 21    | 42                        | 1.77   | -1.65                      | 0.44                  | 0                          | 9                              | 22     | 2           | 7                             | nw.        | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                           |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 59.8                          | +2.4                       | 89       | 5     | 30      | 21†   | 35                        | 0.76   | -2.83                      | 0.40                  | 0                          | 7                              | 23     | 3           | 5                             | nw.        |                                                                                                                                   |
| Burlington.....                             | Burlington..... | 12               | 36                       | 59.1                          | +0.9                       | 91       | 5     | 27      | 21    | 41                        | 0.81   | -2.84                      | 0.33                  | 0                          | 6                              | 23     | 3           | 5                             | nw.        |                                                                                                                                   |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 57.8                          |                            | 90       | 5     | 25      | 21    | 43                        | 2.07   |                            | 0.56                  | 0                          | 8                              | 13     | 6           | 12                            | w.         |                                                                                                                                   |
| Hammonton.....                              | Atlantic.....   | 103              | 21                       |                               |                            |          |       |         |       |                           | 1.64   | -1.91                      | 0.70                  | 0                          | 6                              | 20     | 6           | 5                             | w.         | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                           |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 55.8                          | +0.6                       | 89       | 5     | 24      | 21    | 42                        | 2.37   | -1.34                      | 0.60                  | 0                          | 7                              | 21     | 6           | 4                             | sw.        |                                                                                                                                   |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 56.0                          | +0.9                       | 90       | 5     | 23      | 21    | 41                        | 1.87   | -1.99                      | 0.72                  | 0                          | 11                             | 20     | 5           | 6                             | sw.        |                                                                                                                                   |
| Indian Mills††.....                         | Burlington..... | 76               | 33                       | 57.8                          | +2.3                       | 91       | 5     | 21      | 21    | 43                        | 1.52   | -1.92                      | 0.60                  | 0                          | 7                              | 15     | 10          | 6                             | sw.        |                                                                                                                                   |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 55.2 <sup>a</sup>             | +0.1                       | 87       | 5     | 23      | 21    | 36                        | 1.51   | -2.08                      | 0.58                  | 0                          | 8                              | 19     | 3           | 9                             | nw.        | R. W. Holman.<br>Julius Bernstein.<br>Stokes Seed Farms Co.<br>William L. Flick.                                                  |
| Lumberton.....                              | Burlington..... |                  |                          |                               |                            |          |       |         |       |                           | 0.83   |                            |                       | 0                          |                                |        |             |                               | .....      |                                                                                                                                   |
| Moorestown††.....                           | Burlington..... | 75               | 59                       | 59.4                          | +4.7                       | 91       | 5     | 30      | 27    | 38                        | 0.87   | -2.70                      | 0.32                  | 0                          | 6                              | 21     | 5           | 5                             | w.         |                                                                                                                                   |
| Northfield.....                             | Atlantic.....   | 25               | 15                       |                               |                            |          |       |         |       |                           | 1.26   | -1.52                      | 0.62                  | 0                          | 9                              |        |             |                               | .....      |                                                                                                                                   |
| Pleasantville††.....                        | Atlantic.....   | 26               | 24                       |                               |                            |          |       |         |       |                           | 1.09   | -2.35                      | 0.55                  | 0                          | 9                              | 22     | 3           | 6                             | .....      | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau. |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 57.7                          | +2.1                       | 88       | 5     | 32      | 21    | 35                        | 0.81   | -2.60                      | 0.34                  | 0                          | 5                              | 16     | 5           | 10                            | sw.        |                                                                                                                                   |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 58.0                          | +1.9                       | 90       | 5     | 26      | 21    | 42                        | 1.57   | -1.96                      | 0.53                  | 0                          | 7                              | 21     | 7           | 3                             | nw.        |                                                                                                                                   |
| Vineland.....                               | Cumberland..... | 109              | 53                       |                               |                            | 91       | 5     | 30†     | 21    | 38†                       | 1.21   | -2.13                      | 0.58                  | 0                          | 8                              |        |             |                               | .....      |                                                                                                                                   |
| Philadelphia, Pa.....                       |                 | 117              | 52                       | 60.6                          | +4.3                       | 91       | 5     | 38      | 31    | 26                        | 0.71   | -2.39                      | 0.29                  | 0                          | 6                              | 16     | 5           | 10                            | sw.        |                                                                                                                                   |
| Means and extremes...                       |                 |                  |                          | 57.6                          | +1.6                       | 91       | 5     | 20      | 21    | 43                        | 1.37   | -2.13                      | 0.72                  | 0                          | 7                              | 20     | 5           | 6                             | nw.        |                                                                                                                                   |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                                   |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 58.2                          | +2.4                       | 89       | 5     | 32      | 29†   | 29                        | 0.96   | -2.75                      | 0.35                  | 0                          | 7                              | 17     | 5           | 9                             | nw.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau.          |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 59.2                          | +2.3                       | 86       | 3     | 33      | 27    | 26                        | 1.50   | -1.80                      | 0.55                  | 0                          | 6                              | 18     | 5           | 8                             | nw.        |                                                                                                                                   |
| Cape May City.....                          | Cape May.....   | 17               | 34                       | 60.1                          | +0.5                       | 84       | 3     | 35      | 21    | 25                        | 1.07   | -2.23                      | 0.42                  | 0                          | 10                             | 16     | 7           | 8                             | sw.        |                                                                                                                                   |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 56.6                          | +0.3                       | 91       | 5     | 30      | 21    | 34                        | 0.72   | -3.33                      | 0.25                  | 0                          | 4                              | 15     | 7           | 9                             | nw.        |                                                                                                                                   |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 58.5                          | +1.5                       | 86       | 5     | 36      | 27    | 24                        | 1.28   | -1.97                      | 0.51                  | 0                          | 8                              | 17     | 7           | 7                             | nw.        |                                                                                                                                   |
| Means and extremes...                       |                 |                  |                          | 58.5                          | +1.4                       | 91       | 5     | 30      | 21    | 34                        | 1.11   | -2.42                      | 0.55                  | 0                          | 7                              | 17     | 6           | 8                             | nw.        |                                                                                                                                   |
| For the State.....                          |                 |                  |                          | 56.6                          | +1.6                       | 92       | 2†    | 18      | 21    | 55                        | 1.48   | -2.25                      | 1.17                  | 0                          | 7                              | 19     | 6           | 6                             | nw.        |                                                                                                                                   |

† On other dates also.

‡ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion New Milford and Woodcliff are Weehawken; Northfield is Pleasantville.



Daily Precipitation for October, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |   |   |   |   |   |      |     |     |      |     |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |    |    |    |    | Total. |
|--------------------------------------------|-----------------|---------------|---|---|---|---|---|------|-----|-----|------|-----|----|----|----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|----|----|----|----|----|--------|
|                                            |                 | 1             | 2 | 3 | 4 | 5 | 6 | 7    | 8   | 9   | 10   | 11  | 12 | 13 | 14 | 15  | 16  | 17  | 18  | 19 | 20 | 21 | 22  | 23  | 24  | 25  | 26  | 27 | 28 | 29 | 30 | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |   |   |   |   |      |     |     |      |     |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |    |    |    |    |        |
| Belvidere.....                             | Delaware.....   |               |   |   |   |   |   | .20  | .35 | .10 | .47  |     |    |    |    |     |     |     |     |    |    |    |     | .40 |     |     |     |    |    |    |    |    | 1.52   |
| Charlotteburg.....                         | Passaic.....    |               |   |   |   |   |   | .67  | .63 |     | .94  | .05 |    |    |    |     |     |     |     |    |    |    |     | .41 |     |     |     |    |    |    |    |    | 2.70   |
| Culvers Lake.....                          | Delaware.....   |               |   |   |   |   |   | .07  | .79 | .01 | .50  | .02 |    |    |    |     |     | .15 | .10 |    |    |    |     | .18 | .02 |     | .01 |    |    |    |    |    | 2.03   |
| Dover.....                                 | Passaic.....    |               |   |   |   |   |   | *    | .57 |     | *    | .50 |    |    |    |     |     |     |     |    |    |    |     | .22 |     |     | .05 |    |    |    |    |    | 1.34   |
| Layton.....                                | Delaware.....   |               |   |   |   |   |   | .62  | .30 |     | .58  | .16 |    |    |    |     |     | .26 |     |    |    |    |     | .13 | .01 |     |     |    |    |    |    |    | 2.06   |
| Newton.....                                | Delaware.....   |               |   |   |   |   |   | .26  | .47 | .04 | .47  | .42 |    |    |    |     |     | .04 |     |    |    |    |     | .18 | .06 |     |     |    |    |    |    |    | 1.94   |
| Phillipsburg.....                          | do.....         |               |   |   |   |   |   | .26  | .36 | .06 | .09  | .16 |    |    |    |     |     |     |     |    |    |    | .11 |     |     |     | .03 |    |    |    |    |    | 1.07   |
| Sussex.....                                | Hudson.....     |               |   |   |   |   |   | .45  | .34 | .01 | .31  | .46 |    |    |    |     |     | .18 |     |    |    |    |     | T.  |     |     |     |    |    |    |    |    | 1.75   |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |   |   |   |   |      |     |     |      |     |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |    |    |    |    |        |
| Bergen Point.....                          | Coast.....      |               |   |   |   |   |   | .22  | .67 |     | .24  |     |    |    |    |     |     | .02 |     |    |    |    |     | .42 | .04 |     | T.  |    |    |    |    |    | 1.61   |
| Boonton   .....                            | Passaic.....    |               |   |   |   |   |   | T.   | .55 | .33 | .51  | .11 |    |    |    |     |     |     |     |    |    |    |     |     | .36 |     |     |    |    |    |    |    | 1.86   |
| Chatham  .....                             | do.....         |               |   |   |   |   |   |      | .52 | .17 | .42  | .10 |    |    |    |     |     |     |     |    |    |    |     |     | .39 |     | .03 |    |    |    |    |    | 1.63   |
| Elizabeth.....                             | Coast.....      |               |   |   |   |   |   | *    | .41 |     | *    | .34 |    |    |    |     | .02 | T.  |     |    |    |    |     |     | .36 |     | T.  |    |    |    |    |    | 1.13   |
| Flemington.....                            | Raritan.....    |               |   |   |   |   |   | .17  | .12 |     | .23  | .27 |    |    |    |     |     |     |     |    |    |    |     | T.  | .12 |     | .09 |    |    |    |    |    | 1.00   |
| Highwood.....                              | Hackensack..... |               |   |   |   |   |   | .28  | .35 |     | .66  | .18 |    |    |    |     | T.  |     |     |    |    |    |     | .32 | T.  |     |     |    |    |    |    |    | 1.79   |
| Jersey City.....                           | Coast.....      |               |   |   |   |   |   | .31  | .11 | .31 | .10  | .05 |    |    |    |     | .02 |     | T.  |    |    |    |     | .34 |     |     | T.  |    |    |    |    |    | 1.24   |
| Lambertville.....                          | Delaware.....   |               |   |   |   |   |   | .29  | .12 |     | .08  | .08 |    |    |    |     | .01 |     | .05 |    |    |    |     | .46 | .02 |     |     |    |    |    |    |    | 1.11   |
| Little Falls.    .....                     | Passaic.....    |               |   |   |   |   |   |      | .35 | .05 | .42  | .58 |    |    |    |     |     |     |     |    |    |    |     |     | .35 |     |     |    |    |    |    |    | 1.75   |
| Newark**.....                              | Coast.....      |               |   |   |   |   |   | .47  | .04 | .51 | .21  | .01 |    |    |    |     |     | T.  |     |    |    |    |     | .67 |     |     |     |    |    |    |    |    | 1.91   |
| New Brunswick.....                         | Raritan.....    |               |   |   |   |   |   | .50  | .16 | .03 | .37  | .02 |    |    |    |     | .06 |     |     |    |    |    |     |     | .53 |     |     |    |    |    |    |    | 1.67   |
| New Milford.....                           | Hackensack..... |               |   |   |   |   |   | .36  | .10 | .07 | .51  | .12 |    |    |    |     |     |     |     |    |    |    |     | .26 |     |     |     |    |    |    |    |    | 1.42   |
| Paterson.....                              | Passaic.....    |               |   |   |   |   |   | .15  | .26 |     | 1.02 | .12 |    |    |    |     |     |     |     |    |    |    |     |     | .25 |     |     |    |    |    |    |    | 1.80   |
| Plainfield.....                            | Raritan.....    |               |   |   |   |   |   | .67  | .08 |     | .36  | .02 |    |    |    |     | T.  |     | T.  |    |    |    |     | .42 |     |     |     |    |    |    |    |    | 1.55   |
| Ridgefield**.....                          | Hackensack..... |               |   |   |   |   |   | *    | .59 |     | .36  | .36 |    |    |    |     |     |     |     |    |    |    |     | .16 |     |     |     | T. |    |    |    |    | 1.47   |
| Somerville.....                            | Raritan.....    |               |   |   |   |   |   | .22  | .15 |     | .04  |     |    |    |    |     |     |     |     |    |    |    |     | .05 | .04 |     | .05 |    |    |    |    |    | 0.55   |
| South Orange.....                          | Rahway.....     |               |   |   |   |   |   | 1.13 |     |     | .56  | .06 |    |    |    |     |     |     |     |    |    |    |     | .20 |     | .42 | T.  |    |    |    |    |    | 2.37   |
| Woodcliffe Lake.....                       | Hackensack..... |               |   |   |   |   |   | .22  | .14 | .15 | .58  | .27 |    |    |    |     |     |     |     |    |    |    |     | .25 |     |     |     |    |    |    |    |    | 1.61   |
| New York, N. Y***.....                     | Coast.....      |               |   |   |   |   |   | .38  | .13 | .15 | .20  | .06 |    |    |    |     | .03 |     | .01 |    |    |    |     | .21 |     |     | T.  |    |    |    |    |    | 1.17   |
| <i>The Southern Interior.</i>              |                 |               |   |   |   |   |   |      |     |     |      |     |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |    |    |    |    |        |
| Belle Plain.....                           | Tuckahoe.....   |               |   |   |   |   |   | *    | .43 | .02 | .16  | .33 |    |    |    |     | .44 |     | .15 |    |    |    |     | .12 | .12 |     |     |    |    |    |    |    | 1.77   |
| Bridgeton.....                             | Coast.....      |               |   |   |   |   |   | .02  | .02 |     | .02  |     |    |    |    | .40 | .05 |     | .10 |    |    |    |     | .15 |     |     |     |    |    |    |    |    | 0.76   |
| Burlington.....                            | Delaware.....   |               |   |   |   |   |   | .33  | .08 | T.  | .05  | .05 |    |    |    |     | .15 |     |     |    |    |    |     | T.  | .15 |     |     |    |    |    |    |    | 0.81   |
| Camp Dix   .....                           | Delaware.....   |               |   |   |   |   |   | .20  | .49 | .56 | .06  | T.  |    |    |    | .23 | .05 | .10 |     |    |    |    |     | .38 |     |     |     |    |    |    |    |    | 2.07   |
| Hammonton.....                             | Mullica.....    |               |   |   |   |   |   | .24  | .09 |     | .23  |     |    |    |    | .70 | .09 |     |     |    |    |    |     |     | .29 |     |     |    |    |    |    |    | 1.64   |
| Hightstown.....                            | Raritan.....    |               |   |   |   |   |   | .60  | .38 |     | .35  | .34 |    |    |    |     | .10 |     | .01 |    |    |    |     | .55 | .05 |     |     |    |    |    |    |    | 2.37   |
| Imlaystown.....                            | Delaware.....   |               |   |   |   |   |   | .07  | .47 | .01 | .24  | .03 |    |    |    |     | .29 | .01 | .01 |    |    |    |     | .02 | .72 |     |     |    |    |    |    |    | 1.87   |
| Indian Mills.....                          | Mullica.....    |               |   |   |   |   |   | .09  |     |     | .23  | .04 |    |    |    |     | .48 | .02 | .06 |    |    |    |     |     | .60 |     |     |    |    |    |    |    | 1.52   |
| Lakewood.....                              | Metedeconk..... |               |   |   |   |   |   | .10  | .48 |     | .06  | .10 |    |    |    |     | .32 | T.  | .04 |    |    |    |     | .04 | .37 |     |     |    |    |    |    |    | 1.51   |
| Lumberton.....                             | Delaware.....   |               |   |   |   |   |   |      |     |     |      |     |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |    |    |    |    | 10.83  |
| Moorestown.....                            | Delaware.....   |               |   |   |   |   |   | .03  | .13 |     | .20  |     |    |    |    |     | .18 |     | .01 |    |    |    |     | .32 |     |     |     |    |    |    |    |    | 0.87   |
| Northfield.....                            | Coast.....      |               |   |   |   |   |   | .05  | .06 |     | .04  | .01 |    |    |    |     | .62 | .03 | .13 |    |    |    |     | .03 | .29 |     |     |    |    |    |    |    | 1.26   |
| Pleasantville.....                         | Coast.....      |               |   |   |   |   |   | .07  | .07 | .05 | T.   | .03 |    |    |    |     | .55 | .05 | .10 |    |    |    |     | .15 | .02 |     |     |    |    |    |    |    | 1.09   |
| Trenton***.....                            | Delaware.....   |               |   |   |   |   |   | .34  | .07 | .07 | T.   | T.  |    |    |    |     | .12 | T.  |     |    |    |    |     | .21 |     |     | T.  |    |    |    |    |    | 0.81   |
| Tuckerton.....                             | Coast.....      |               |   |   |   |   |   | T.   | .32 | .02 | T.   | .14 |    |    |    |     | .37 | .14 | .05 |    |    |    |     | T.  | .53 |     |     |    |    |    |    |    | 1.57   |
| Vineland.....                              | Maurice.....    |               |   |   |   |   |   | .10  | .07 |     | .09  | .04 |    |    |    |     | .58 | .02 | .13 |    |    |    |     |     | .18 |     |     |    |    |    |    |    | 1.21   |
| Philadelphia, Pa.....                      | Delaware.....   |               |   |   |   |   |   | .15  | .13 | T.  | .01  |     |    |    |    |     | .12 | T.  | .01 |    |    |    |     | .29 |     |     |     |    |    |    |    |    | 0.71   |
| <i>The Sea Coast.</i>                      |                 |               |   |   |   |   |   |      |     |     |      |     |    |    |    |     |     |     |     |    |    |    |     |     |     |     |     |    |    |    |    |    |        |
| Asbury Park.....                           | Coast.....      |               |   |   |   |   |   | .20  | .35 | .02 |      | .09 |    |    |    |     | .24 |     | .02 |    |    |    |     | .04 |     |     |     |    |    |    |    |    | 0.96   |
| Atlantic City***.....                      | do.....         |               |   |   |   |   |   | .41  |     |     | .11  |     |    |    |    | .17 | .38 | T.  | .12 |    |    |    |     | .31 |     |     |     |    |    |    |    |    | 1.50   |
| Cape May City.....                         | do.....         |               |   |   |   |   |   | .02  | .02 | .01 | .09  | .04 |    |    |    | T.  | .42 | .02 | .29 |    |    |    |     | .15 | .01 |     |     |    |    |    |    |    | 1.07   |
| Long Branch**.....                         | do.....         |               |   |   |   |   |   | .25  | T.  |     | .07  |     |    |    |    |     | .16 |     |     |    |    |    |     | .24 |     |     |     | T. |    |    |    |    | 0.72   |
| Sandy Hook***.....                         | do.....         |               |   |   |   |   |   | .27  | .27 | .07 | .16  | .04 |    |    |    |     | .12 |     | .02 |    |    |    |     | .33 |     |     | T.  |    |    |    |    |    | 1.28   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine |                                            |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|---------------|--------------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. |               | Relative humidity,<br>per cent. at 8 p. m. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |               |                                            |
| Atlantic City.....    | 30.02         | 30.46    | 13    | 29.55   | 26    | 16               | 48              | s.         | 17        | 78                                         | 71            | 67                                         |
| Cape May City.....    | 30.06         | 30.48    | 13    | 29.64   | 25    | 8                | 36              | s.         | 23        | 78                                         | 74            | .....                                      |
| Long Branch.....      |               |          |       |         |       |                  | 42              | n.w.       | 26        | 67*                                        | 63†           | 70                                         |
| Newark.....           |               |          |       |         |       |                  |                 |            |           |                                            |               | 80                                         |
| New York, N. Y.....   | 30.00         | 30.48    | 13    | 29.52   | 26    | 17               | 60              | n.w.       | 24        | 74                                         | 64            | 70                                         |
| Philadelphia, Pa..... | 30.02         | 30.48    | 13    | 29.57   | 26    | 10               | 29              | s.w.       | 11        | 70                                         | 59            | 77                                         |
| Ridgefield.....       | 30.01         | 30.42    | 14    | 29.60   | 25    |                  |                 |            |           |                                            |               |                                            |
| Sandy Hook.....       | 29.99         | 30.47    | 13    | 29.51   | 25    | 16               | 50              | s.         | 23        | 76                                         | 71            | 73                                         |
| Trenton.....          | 30.00         | 30.46    | 13    | 29.53   | 25    | 11               | 39              | w.         | 23        | 75                                         | 64            | 72                                         |

§ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for October, 1922.

| Stations.                                   | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31                | Mean.             |      |
|---------------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|------|
| <i>The Highlands and Kittatinny Valley.</i> |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |
| Belvidere.....                              | Maximum | 85 | 87 | 85 | 81 | 87 | 88 | 74 | 81 | 74 | 80 | 75 | 69 | 60 | 75 | 68 | 73 | 61 | 54 | 58 | 67 | 65 | 59 | 60 | 56 | 56 | 60 | 64 | 58 | 59 | 69.6 <sup>b</sup> |                   |      |
|                                             | Minimum | 48 | 46 | 49 | 52 | 51 | 54 | 57 | 62 | 52 | 61 | 63 | 47 | 37 | 34 | 50 | 49 | 55 | 36 | 28 | 36 | 23 | 29 | 36 | 35 | 29 | 35 | 29 | 33 | 25 | 32                | 35                | 42.2 |
| Charlotteburg.....                          | Maximum | 83 | 87 | 82 | 78 | 85 | 81 | 66 | 78 | 75 | 69 | 72 | 66 | 58 | 61 | 72 | 71 | 57 | 52 | 48 | 57 | 66 | 63 | 59 | 60 | 56 | 56 | 60 | 64 | 58 | 59                | 62.2              |      |
|                                             | Minimum | 43 | 39 | 45 | 44 | 52 | 51 | 51 | 57 | 52 | 59 | 64 | 50 | 36 | 25 | 40 | 45 | 52 | 32 | 26 | 31 | 18 | 25 | 31 | 35 | 23 | 40 | 30 | 30 | 32 | 65.4              |                   |      |
| Dover.....                                  | Maximum | 81 | 87 | 83 | 78 | 86 | 89 | 72 | 72 | 72 | 71 | 72 | 66 | 58 | 61 | 71 | 67 | 72 | 60 | 54 | 52 | 58 | 67 | 64 | 50 | 66 | 54 | 56 | 58 | 60 | 56                | 66.1 <sup>b</sup> |      |
|                                             | Minimum | 48 | 46 | 52 | 50 | 59 | 56 | 56 | 56 | 56 | 63 | 58 | 44 | 35 | 31 | 51 | 47 | 47 | 36 | 27 | 29 | 22 | 28 | 34 | 29 | 28 | 33 | 31 | 34 | 26 | 32                | 66.4 <sup>b</sup> |      |
| Layton.....                                 | Maximum | 85 | 87 | 83 | 80 | 90 | 91 | 74 | 81 | 76 | 76 | 73 | 65 | 56 | 62 | 72 | 67 | 70 | 58 | 55 | 48 | 56 | 65 | 63 | 56 | 58 | 53 | 53 | 56 | 57 | 62                | 66.8              |      |
|                                             | Minimum | 45 | 43 | 46 | 50 | 52 | 49 | 54 | 62 | 50 | 58 | 58 | 46 | 35 | 27 | 44 | 43 | 48 | 45 | 22 | 29 | 18 | 25 | 42 | 29 | 25 | 35 | 28 | 34 | 21 | 24                | 39.4              |      |
| Newton.....                                 | Maximum | 83 | 85 | 83 | 78 | 86 | 87 | 77 | 80 | 71 | 78 | 72 | 65 | 56 | 65 | 69 | 64 | 70 | 60 | 51 | 48 | 55 | 65 | 63 | 55 | 58 | 58 | 54 | 55 | 56 | 52                | 66.2              |      |
|                                             | Minimum | 52 | 50 | 52 | 58 | 60 | 61 | 58 | 60 | 52 | 58 | 59 | 49 | 38 | 33 | 40 | 50 | 48 | 38 | 26 | 34 | 24 | 34 | 43 | 38 | 33 | 35 | 30 | 39 | 34 | 33                | 43.6              |      |
| Phillipsburg.....                           | Maximum | 84 | 92 | 89 | 88 | 89 | 89 | 85 | 85 | 85 | 80 | 66 | 59 | 67 | 76 | 70 | 77 | 64 | 60 | 51 | 62 | 65 | 72 | 57 | 67 | 61 | 60 | 59 | 67 | 57 | 67                | 69.7 <sup>a</sup> |      |
|                                             | Minimum | 48 | 47 | 50 | 54 | 52 | 55 | 58 | 61 | 55 | 66 | 58 | 46 | 38 | 31 | 51 | 50 | 49 | 39 | 31 | 30 | 24 | 26 | 48 | 32 | 32 | 35 | 33 | 34 | 27 | 31                | 42.7              |      |
| Sussex.....                                 | Maximum | 86 | 88 | 84 | 80 | 89 | 90 | 79 | 81 | 72 | 75 | 75 | 69 | 61 | 65 | 72 | 65 | 78 | 60 | 51 | 58 | 67 | 73 | 63 | 58 | 53 | 59 | 56 | 59 | 53 | 55                | 69.2 <sup>a</sup> |      |
|                                             | Minimum | 41 | 47 | 47 | 57 | 59 | 55 | 60 | 53 | 58 | 64 | 48 | 37 | 28 | 41 | 44 | 44 | 35 | 23 | 33 | 33 | 27 | 33 | 37 | 25 | 36 | 32 | 35 | 31 | 31 | 32                | 41.0 <sup>a</sup> |      |
| <i>The Red Sandstone Plain.</i>             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |
| Bergen Point.....                           | Maximum | 83 | 79 | 83 | 83 | 77 | 67 | 82 | 74 | 73 | 68 | 58 | 73 | 70 | 69 | 73 | 55 | 58 | 51 | 53 | 62 | 65 | 57 | 66 | 63 | 58 | 59 | 58 | 57 | 57 | 66.9 <sup>a</sup> |                   |      |
|                                             | Minimum | 55 | 60 | 56 | 64 | 63 | 60 | 62 | 60 | 59 | 63 | 53 | 42 | 42 | 55 | 56 | 51 | 35 | 36 | 41 | 33 | 37 | 44 | 42 | 37 | 47 | 34 | 42 | 34 | 38 | 37                | 49.1              |      |
| Boonton§§.....                              | Maximum | 85 | 88 | 83 | 77 | 86 | 80 | 71 | 78 | 72 | 73 | 66 | 60 | 62 | 70 | 68 | 72 | 58 | 53 | 51 | 56 | 65 | 66 | 49 | 66 | 50 | 55 | 58 | 58 | 55 | 58                | 66.7              |      |
|                                             | Minimum | 45 | 41 | 47 | 48 | 52 | 54 | 54 | 59 | 53 | 59 | 65 | 51 | 40 | 29 | 39 | 44 | 54 | 35 | 26 | 33 | 20 | 26 | 32 | 39 | 26 | 42 | 32 | 30 | 28 | 37                | 41.0              |      |
| Elizabeth.....                              | Maximum | 86 | 92 | 88 | 80 | 90 | 79 | 71 | 83 | 76 | 74 | 77 | 71 | 62 | 66 | 71 | 70 | 74 | 54 | 54 | 58 | 67 | 68 | 63 | 66 | 61 | 56 | 59 | 60 | 58 | 60                | 69.8              |      |
|                                             | Minimum | 50 | 50 | 55 | 54 | 60 | 59 | 58 | 62 | 56 | 67 | 68 | 51 | 41 | 36 | 53 | 58 | 61 | 37 | 28 | 36 | 25 | 32 | 38 | 33 | 43 | 31 | 36 | 27 | 31 | 30                | 45.2              |      |
| Flemington.....                             | Maximum | 87 | 91 | 87 | 84 | 90 | 91 | 78 | 84 | 75 | 81 | 73 | 72 | 67 | 55 | 62 | 69 | 67 | 73 | 57 | 52 | 49 | 56 | 65 | 64 | 50 | 55 | 57 | 58 | 58 | 54                | 70.7              |      |
|                                             | Minimum | 48 | 46 | 54 | 54 | 57 | 58 | 58 | 63 | 56 | 66 | 64 | 50 | 39 | 35 | 52 | 50 | 59 | 38 | 29 | 39 | 23 | 30 | 35 | 40 | 32 | 39 | 29 | 31 | 26 | 35                | 44.1              |      |
| Highwood.....                               | Maximum | 77 | 81 | 81 | 72 | 86 | 72 | 65 | 76 | 72 | 70 | 70 | 67 | 55 | 62 | 69 | 67 | 73 | 57 | 52 | 49 | 56 | 65 | 64 | 50 | 55 | 57 | 58 | 58 | 54 | 62.7              |                   |      |
|                                             | Minimum | 48 | 45 | 50 | 49 | 56 | 58 | 60 | 62 | 56 | 66 | 61 | 51 | 37 | 33 | 53 | 52 | 53 | 37 | 32 | 23 | 30 | 35 | 34 | 29 | 37 | 31 | 34 | 25 | 28 | 42.7              |                   |      |
| Jersey City.....                            | Maximum | 81 | 87 | 86 | 77 | 88 | 78 | 67 | 81 | 71 | 73 | 72 | 67 | 59 | 63 | 69 | 70 | 73 | 57 | 57 | 53 | 51 | 56 | 62 | 66 | 58 | 64 | 57 | 55 | 59 | 60                | 67.0              |      |
|                                             | Minimum | 58 | 59 | 63 | 62 | 64 | 65 | 60 | 65 | 60 | 67 | 62 | 50 | 44 | 48 | 58 | 57 | 57 | 40 | 35 | 39 | 34 | 41 | 47 | 41 | 39 | 37 | 34 | 40 | 36 | 37                | 49.5              |      |
| Lambertville.....                           | Maximum | 82 | 86 | 84 | 81 | 88 | 86 | 71 | 80 | 75 | 80 | 73 | 64 | 56 | 63 | 70 | 73 | 70 | 63 | 52 | 50 | 56 | 66 | 66 | 56 | 58 | 56 | 55 | 58 | 53 | 54                | 67.5 <sup>a</sup> |      |
|                                             | Minimum | 54 | 54 | 61 | 58 | 58 | 58 | 57 | 62 | 57 | 67 | 61 | 51 | 37 | 37 | 54 | 55 | 62 | 40 | 29 | 35 | 27 | 37 | 43 | 40 | 37 | 38 | 31 | 38 | 32 | 25                | 46.0              |      |
| Little Falls§§.....                         | Maximum | 86 | 90 | 87 | 80 | 89 | 78 | 76 | 81 | 77 | 72 | 76 | 69 | 61 | 64 | 74 | 70 | 77 | 59 | 55 | 53 | 62 | 68 | 69 | 55 | 66 | 51 | 58 | 60 | 59 | 59                | 69.1              |      |
|                                             | Minimum | 49 | 44 | 51 | 50 | 55 | 56 | 57 | 60 | 56 | 60 | 66 | 52 | 49 | 34 | 46 | 47 | 56 | 40 | 28 | 37 | 23 | 30 | 33 | 41 | 39 | 43 | 33 | 37 | 26 | 32                | 43.9              |      |
| Newark.....                                 | Maximum | 81 | 87 | 85 | 76 | 88 | 78 | 67 | 81 | 71 | 70 | 73 | 67 | 59 | 63 | 69 | 70 | 73 | 57 | 57 | 53 | 51 | 56 | 62 | 66 | 58 | 64 | 57 | 55 | 58 | 51                | 66.0              |      |
|                                             | Minimum | 56 | 54 | 60 | 60 | 63 | 62 | 61 | 66 | 63 | 64 | 56 | 45 | 41 | 41 | 55 | 55 | 42 | 58 | 53 | 52 | 58 | 66 | 65 | 47 | 64 | 56 | 57 | 58 | 51 | 58                | 66.0              |      |
| New Brunswick.....                          | Maximum | 83 | 88 | 84 | 80 | 90 | 82 | 71 | 81 | 78 | 77 | 73 | 66 | 59 | 62 | 70 | 71 | 73 | 65 | 55 | 51 | 57 | 66 | 68 | 64 | 66 | 61 | 56 | 57 | 60 | 56                | 67.8              |      |
|                                             | Minimum | 48 | 46 | 55 | 55 | 60 | 59 | 62 | 56 | 67 | 73 | 66 | 59 | 62 | 70 | 71 | 73 | 65 | 55 | 51 | 57 | 66 | 68 | 64 | 66 | 61 | 56 | 57 | 60 | 56 | 57                | 68.6              |      |
| Paterson.....                               | Maximum | 84 | 88 | 86 | 77 | 89 | 77 | 68 | 77 | 78 | 77 | 73 | 66 | 59 | 62 | 70 | 71 | 73 | 65 | 55 | 51 | 57 | 66 | 68 | 64 | 66 | 61 | 56 | 57 | 60 | 56                | 67.8              |      |
|                                             | Minimum | 52 | 53 | 58 | 55 | 58 | 60 | 61 | 58 | 66 | 65 | 52 | 43 | 33 | 53 | 50 | 59 | 39 | 32 | 37 | 29 | 34 | 40 | 41 | 35 | 41 | 35 | 41 | 30 | 37 | 35                | 46.7              |      |
| Plainfield.....                             | Maximum | 84 | 89 | 87 | 79 | 89 | 87 | 66 | 81 | 76 | 73 | 68 | 61 | 63 | 70 | 71 | 73 | 58 | 53 | 53 | 58 | 63 | 68 | 54 | 65 | 58 | 55 | 60 | 61 | 57 | 58                | 68.1              |      |
|                                             | Minimum | 47 | 43 | 49 | 50 | 57 | 55 | 56 | 61 | 66 | 63 | 50 | 36 | 33 | 51 | 51 | 55 | 33 | 26 | 31 | 22 | 28 | 34 | 35 | 28 | 35 | 28 | 30 | 24 | 33 | 28                | 41.7              |      |
| Ridgefield.....                             | Maximum | 81 | 85 | 84 | 74 | 87 | 70 | 73 | 81 | 73 | 70 | 74 | 67 | 58 | 65 | 70 | 73 | 57 | 53 | 50 | 56 | 65 | 65 | 48 | 66 | 49 | 56 | 57 | 59 | 57 | 57                | 66.0              |      |
|                                             | Minimum | 51 | 47 | 54 | 52 | 60 | 60 | 59 | 62 | 57 | 66 | 58 | 46 | 38 | 35 | 54 | 54 | 47 | 39 | 30 | 31 | 26 | 32 | 39 | 34 | 32 | 33 | 31 | 36 | 28 | 33                | 43.8              |      |
| Somerville.....                             | Maximum | 86 | 92 | 88 | 83 | 91 | 92 | 70 | 84 | 78 | 79 | 75 | 68 | 61 | 65 | 72 | 72 | 74 | 60 | 55 | 55 | 60 | 68 | 68 | 58 | 68 | 58 | 58 | 62 | 57 | 58                | 70.0              |      |
|                                             | Minimum | 46 | 45 | 52 | 50 | 54 | 55 | 58 | 62 | 55 | 66 | 66 | 49 | 34 | 33 | 52 | 50 | 59 | 33 | 25 | 32 | 22 | 28 | 34 | 39 | 28 | 36 | 29 | 30 | 24 | 33                | 42.1              |      |
| South Orange.....                           | Maximum | 78 | 82 | 81 | 74 | 84 | 76 | 66 | 78 | 72 | 74 | 72 | 65 | 58 | 62 | 69 | 67 | 71 | 52 | 50 | 48 | 54 | 62 | 54 | 63 | 54 | 54 | 55 | 56 | 54 | 56                | 64.7 <sup>a</sup> |      |
|                                             | Minimum | 54 | 52 | 61 | 54 | 57 | 62 | 59 | 62 | 59 | 68 | 58 | 51 | 41 | 38 | 58 | 52 | 52 | 38 | 36 | 34 | 29 | 34 | 47 | 38 | 34 | 38 | 30 | 30 | 35 | 32                |                   |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVII.

NOVEMBER, 1922.

No. 11.

### GENERAL SUMMARY.

The weather was notably pleasant during November, there having been a slightly subnormal volume of precipitation as well as a deficiency in low temperatures and cloudiness. There were but few occurrences of consecutive freezing days, while, on the other hand, there were many days with temperatures in the upper sixties. From the first of the month through the nineteenth, the warmth was mostly slightly above normal, and subnormal thereafter. In northern and eastern districts the period of warm weather terminated with a thundershower on the 20th, which was attended by hail in several localities, and which was a somewhat unusual occurrence for November. There was hardly enough snow for comment.

This open weather resulted in very favorable opportunities for bringing farm work well in hand. Plowing was carried on, and wood for fuel was prepared in unusually large quantities. The mild weather also resulted in a considerable saving in the consumption of fuel.

The lack of rain resulted in a further depletion of water supply resources, and while municipal supplies were not scanty, private sources failed. Wells, springs, ponds and streams were lower and for longer periods than has heretofore been recorded.

Taking the State as a whole, from the year 1917 to date, inclusive, there has been a steadily increasing deficiency of precipitation. The years 1919 and 1920 were slightly above normal in precipitation, but all the other years, or almost any one of them, more than made up for those two years of excess. The lack of water supply, then, must be attributed to more than the deficient rainfall these past few months.

Storm warnings were displayed along the coast on the 23d, 28th, and 30th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 44.3°, which was 1.3° above the normal. The highest temperature was 73° at Bridgeton on the 12th, and the lowest, 13°, at Boonton on the 26th. The greatest daily range of temperature was 44° at Sussex on the 1st. The highest monthly mean temperature was 48.2° at Cape May City, and the lowest, 40.0° at Layton.

The temperature departure from the normal for the year 1922, to date, by sections, is: The Highlands, +1.3°; Red Sandstone Plain, +0.9°; Southern Interior, +1.4°; Sea Coast, -1.3°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 47 stations, was 0.91 inch, which was 2.29 inches below the normal. The average snowfall was 0.2 inch, which was 1.5 inches below the normal. The greatest monthly precipitation was 1.56 inches at Highwood, and the least, 0.49 inch at Phillipsburg. The greatest amount of precipitation in any 24 consecutive hours was 0.73 inch at Vineland on the 15th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 6, or 2 less than the normal.

The precipitation accumulated departure from the normal for the year 1922 to date, by sections, is: The Highlands, -5.03 inches; Red Sandstone Plain, -3.01 inches; Southern Interior, -6.64 inches; Sea Coast, -6.46 inches.

JAN 8 1923

### WIND.

The prevailing direction was from the northwest. The wind movement averaged 13 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 51 miles per hour from the northwest at Sandy Hook on the 24th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than the normal; partly cloudy, 8 or 1 less than the normal; cloudy, 9, or normal. The per cent of possible sunshine was 54, which was 4 per cent below the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.08 inches, which was 0.02 inch below the normal. The highest reading was 30.47 inches at Cape May City on the 10th and Atlantic City on the 13th, and the lowest, 29.43 inches at Sandy Hook on the 24th.

The mean stage of the Delaware River at Phillipsburg was 0.4 foot, and the highest stage, 0.5 foot on the 9th to 12th, and 20th to 22d, inclusive. At Trenton the mean daily stage was zero, which was 1.7 feet below the normal. The highest stage was 0.2 foot on the 7th, and the lowest, -0.1 foot on the 28th.

The first killing frosts of autumn did not occur along the coast until the 22d, and in some portions of the 25th. Dense fog occurred on the 2d, 3d, 5th, 6th, 7th, 8th, 11th, and 20th. Thunderstorms were noted in some portions of the State on the 3d and 20th. Solar halos were observed on the 2d, 6th, 11th, 14th, 18th, and 27th, and lunar halos on the 5th, 29th, and 30th. Hail fell at Bergen Point, Elizabeth, and Ridgefield on the 20th.

### COMPARATIVE DATA FOR NOVEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                  |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | at inch or more. |
| 1885..... | 44.8         | 76       | 18      | 4.53           | 7.90      | 2.72   | .....        | .....          | .....   | .....            |
| 1886..... | 44.5         | 73       | 17      | 4.49           | 6.24      | 3.45   | .....        | .....          | .....   | .....            |
| 1887..... | 41.5         | 72       | 13      | 1.94           | 2.60      | 0.95   | .....        | .....          | .....   | 6                |
| 1888..... | 45.8         | 77       | 8       | 3.97           | 5.41      | 2.66   | .....        | .....          | .....   | 13               |
| 1889..... | 45.7         | 69       | 13      | 8.48           | 11.45     | 4.70   | .....        | .....          | .....   | 13               |
| 1890..... | 43.8         | 74       | 11      | 0.82           | 1.10      | 0.38   | 13           | 12             | 5       | 8                |
| 1891..... | 42.2         | 70       | 6       | 2.39           | 3.47      | 1.54   | 12           | 10             | 8       | 4                |
| 1892..... | 41.9         | 71       | 12      | 7.29           | 9.49      | 4.74   | 8            | 9              | 13      | 11               |
| 1893..... | 41.8         | 70       | 11      | 3.48           | 4.53      | 2.19   | 10           | 11             | 9       | 7                |
| 1894..... | 40.3         | 76       | 11      | 3.34           | 5.12      | 1.77   | 13           | 7              | 10      | 10               |
| 1895..... | 45.7         | 80       | 12      | 3.17           | 5.10      | 1.56   | 12           | 7              | 11      | 10               |
| 1896..... | 48.2         | 78       | 12      | 3.05           | 5.68      | 1.37   | 9            | 9              | 12      | 8                |
| 1897..... | 48.2         | 74       | 10      | 4.59           | 5.95      | 2.42   | 8            | 11             | 11      | 12               |
| 1898..... | 42.4         | 70       | 11      | 6.76           | 9.07      | 3.83   | 10           | 9              | 11      | 14               |
| 1899..... | 44.0         | 71       | 17      | 2.29           | 4.32      | 0.72   | 15           | 8              | 7       | 7                |
| 1900..... | 47.5         | 79       | 15      | 3.43           | 5.54      | 1.82   | 9            | 10             | 11      | 9                |
| 1901..... | 48.5         | 69       | 10      | 2.38           | 4.23      | 1.18   | 12           | 9              | 9       | 6                |
| 1902..... | 49.3         | 80       | 20      | 2.20           | 4.17      | 0.87   | 10           | 11             | 9       | 8                |
| 1903..... | 39.9         | 79       | 3       | 1.26           | 2.03      | 0.75   | 16           | 8              | 6       | 6                |
| 1904..... | 40.2         | 69       | 6       | 2.18           | 3.40      | 1.30   | 12           | 10             | 8       | 6                |
| 1905..... | 42.1         | 70       | 6       | 1.84           | 2.86      | 0.54   | 12           | 10             | 8       | 6                |
| 1906..... | 43.6         | 70       | 8       | 1.61           | 2.52      | 1.06   | 16           | 7              | 7       | 6                |
| 1907..... | 43.5         | 68       | 13      | 5.65           | 6.95      | 4.19   | 10           | 8              | 12      | 13               |
| 1908..... | 43.1         | 72       | 2       | 0.96           | 1.29      | 0.35   | 14           | 8              | 8       | 4                |
| 1909..... | 46.4         | 80       | 12      | 2.36           | 4.33      | 1.32   | 13           | 8              | 9       | 8                |
| 1910..... | 40.4         | 71       | 13      | 3.79           | 5.73      | 1.63   | 5            | 13             | 12      | 9                |
| 1911..... | 41.3         | 73       | 13      | 5.17           | 6.50      | 3.17   | 8            | 11             | 11      | 10               |
| 1912..... | 45.3         | 76       | 11      | 3.43           | 8.12      | 2.02   | 15           | 8              | 7       | 6                |
| 1913..... | 46.2         | 77       | 21      | 2.71           | 4.89      | 1.00   | 14           | 8              | 6       | 6                |
| 1914..... | 43.3         | 80       | 6       | 2.60           | 4.81      | 1.21   | 16           | 8              | 8       | 8                |
| 1915..... | 44.0         | 75       | 17      | 1.69           | 3.11      | 0.96   | 14           | 8              | 9       | 8                |
| 1916..... | 43.3         | 75       | 12      | 2.11           | 3.81      | 0.80   | 16           | 8              | 9       | 8                |
| 1917..... | 39.8         | 68       | 9       | 0.56           | 1.15      | 0.18   | 19           | 5              | 6       | 3                |
| 1918..... | 43.9         | 71       | 12      | 1.87           | 3.05      | 0.49   | 14           | 6              | 10      | 7                |
| 1919..... | 43.7         | 76       | 13      | 3.74           | 6.18      | 1.98   | 13           | 7              | 10      | 11               |
| 1920..... | 43.0         | 74       | 12      | 4.41           | 7.90      | 2.14   | 9            | 6              | 15      | 10               |
| 1921..... | 44.3         | 79       | 18      | 4.26           | 6.69      | 2.79   | 9            | 6              | 15      | 14               |
| 1922..... | 44.3         | 73       | 13      | 0.91           | 1.56      | 0.49   | 13           | 8              | 9       | 6                |



## Climatological Data for November, 1922.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       |                        | Precipitation, in inches. |                            |                       |                            | No. of days.                  |        |             |         | Prevailing direction of wind. | Observers.                                                                                                               |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|------------------------|---------------------------|----------------------------|-----------------------|----------------------------|-------------------------------|--------|-------------|---------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | (Greatest daily range. | Total.                    | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 01 in. or more. | Clear. | Pt. cloudy. | Cloudy. |                               |                                                                                                                          |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                        |                           |                            |                       |                            |                               |        |             |         |                               |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 41.3                          | +0.2                       | 66       | 12    | 19      | 28    | 39                     | 0.80                      | -2.44                      | 0.30                  | T.                         | 7                             | 15     | 4           | 11      | .....                         | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 41.5                          | +1.4                       | 65       | 1     | 14      | 27    | 43                     | 0.91                      | -2.61                      | 0.45                  | 0.5                        | 6                             | 10     | 9           | 11      | w.                            |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848              | 21                       |                               |                            |          |       | 15      | 27    |                        | 0.85                      | -1.95                      | 0.28                  | 1.2                        | 12                            | 9      | 8           | 13      | w.                            |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600              | 38                       | 42.3                          | +2.2                       | 65       | 1†    | 18      | 26    | 36                     | 0.96                      | -2.68                      | 0.51                  | 0.6                        | 8                             | 6      | 15          | 9       | .....                         |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 40.0                          | +1.2                       | 65       | 1     | 14      | 28    | 43                     | 1.16                      | -1.33                      | 0.36                  | 0.7                        | 10                            | 10     | 4           | 16      | sw.                           | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 42.2                          | +1.7                       | 64       | 12    | 21      | 27†   | 34                     | 0.91                      | -2.22                      | 0.33                  | 0.5                        | 9                             | 7      | 6           | 17      | n.                            |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       |                               |                            |          |       |         |       |                        | 0.49                      | -2.71                      | 0.20                  | T.                         | 4                             | 17     | 4           | 9       | .....                         |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 42.2                          | +1.1                       | 66       | 1†    | 17      | 27    | 44                     | 0.98                      | -2.27                      | 0.33                  | T.                         | 6                             | 10     | 9           | 11      | nw.                           |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 41.6                          | +1.3                       | 66       | 1†    | 14      | 27†   | 44                     | 0.88                      | -2.60                      | 0.51                  | 0.4                        | 8                             | 11     | 7           | 12      | w.                            |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                        |                           |                            |                       |                            |                               |        |             |         |                               |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37               | 25                       | 45.6                          | +1.9                       | 67       | 12    | 28      | 27    | 28                     | 1.18                      | -2.09                      | 0.52                  | 0.5                        | 7                             | 6      | 15          | 9       | nw.                           | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400              | 32                       | 40.9                          | -0.5                       | 67       | 1     | 13      | 26    | 37                     | 0.88                      | -2.69                      | 0.56                  | 0                          | 5                             | 21     | 1           | 8       | nw.                           |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185              | 18                       |                               |                            |          |       |         |       |                        | 1.10                      | -1.80                      | 0.56                  |                            | 6                             | 18     | 8           | 4       | .....                         |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 45.1                          | +1.6                       | 69       | 12    | 24      | 27    | 35                     | 1.03                      | -2.22                      | 0.47                  | 0.8                        | 6                             | 11     | 11          | 8       | sw.                           |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 44.7                          | +1.8                       | 68       | 12    | 23      | 27    | 37                     | 0.52                      | -2.60                      | 0.23                  | T.                         | 6                             | 17     | 6           | 7       | w.                            | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 42.4                          | +0.4                       | 67       | 12    | 21      | 27†   | 38                     | 1.56                      | -1.94                      | 0.70                  | 1.0                        | 7                             | 7      | 11          | 12      | nw.                           |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 45.9                          | +1.9                       | 68       | 12    | 29      | 25†   | 22                     | 1.20                      | -1.99                      | 0.54                  | 1.0                        | 6                             | 5      | 16          | 9       | nw.                           |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 43.7                          | +0.5                       | 64       | 12    | 22      | 28    | 28                     | 0.74                      | -2.47                      | 0.29                  | T.                         | 6                             | 12     | 10          | 8       | nw.                           |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 43.8                          | +1.6                       | 68       | 1†    | 20      | 27    | 40                     | 1.26                      | -1.64                      | 0.67                  | 1.0                        | 5                             | 12     | 10          | 8       | nw.                           | Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                        |
| Newark.....                                 | Essex.....      | 159              | 80                       | 45.1                          | +1.3                       | 66       | 1†    | 28      | 26†   | 27                     | 0.97                      | -2.50                      | 0.36                  | 1.1                        | 6                             | 18     | 4           | 8       | nw.                           |                                                                                                                          |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 44.8                          | +1.4                       | 67       | 12    | 22      | 27    | 33                     | 0.77                      | -2.71                      | 0.30                  | T.                         | 6                             | 19     | 6           | 5       | n.                            |                                                                                                                          |
| New Milford†.....                           | Bergen.....     |                  | 2                        |                               |                            |          |       |         |       |                        | 1.28                      |                            | 0.59                  |                            | 7                             |        |             |         | .....                         |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 45.6                          | +2.1                       | 69       | 12    | 25      | 27    | 36                     | 1.18                      | -1.99                      | 0.57                  | T.                         | 7                             | 9      | 3           | 18      | nw.                           | Marion T. Probert.<br>E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.                                             |
| Plainfield.....                             | Union.....      | 120              | 34                       | 43.8                          | +1.3                       | 68       | 12    | 20      | 27    | 38                     | 0.84                      | -2.53                      | 0.45                  | 0.3                        | 6                             | 10     | 13          | 7       | nw.                           |                                                                                                                          |
| Ridgefield†.....                            | Bergen.....     | 70               | 7                        | 43.0                          |                            | 67       | 12    | 24      | 26†   | 34                     | 1.32                      |                            | 0.50                  | 1.0                        | 7                             | 10     | 10          | 10      | nw.                           |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70               | 39                       | 43.6                          | +1.2                       | 68       | 12    | 18      | 27    | 39                     | 0.67                      | -2.37                      | 0.32                  | T.                         | 5                             | 18     | 8           | 4       | nw.                           |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200              | 52                       | 43.6                          | +1.8                       | 64       | 12    | 25      | 27†   | 28                     | 1.29                      | -2.01                      | 0.55                  | 0.5                        | 7                             | 5      | 16          | 9       | nw.                           | Wm. H. Meeder.<br>Hackensack Water Co.<br>U. S. Weather Bureau.                                                          |
| Woodcliff Lake†.....                        | Bergen.....     |                  | 2                        |                               |                            |          |       |         |       |                        | 0.67                      |                            | 0.35                  |                            | 5                             |        |             |         | .....                         |                                                                                                                          |
| New York, N. Y.....                         |                 | 365              | 52                       | 45.4                          | +1.4                       | 65       | 12    | 27      | 26    | 20                     | 1.16                      | -2.28                      | 0.55                  | 1.0                        | 6                             | 7      | 11          | 12      | nw.                           |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 44.1                          | +1.3                       | 69       | 12    | 13      | 26    | 40                     | 1.03                      | -2.24                      | 0.70                  | 0.4                        | 6                             | 12     | 9           | 9       | nw.                           |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                        |                           |                            |                       |                            |                               |        |             |         |                               |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 44.9                          | +0.4                       | 71       | 12    | 16      | 22    | 42                     | 1.01                      | -1.60                      | 0.52                  | 0                          | 6                             | 15     | 8           | 7       | nw.                           | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 46.8                          | +1.2                       | 73       | 12    | 25      | 26†   | 32                     | 0.67                      | -2.13                      | 0.35                  | 0                          | 5                             | 23     | 1           | 6       | w.                            |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 46.0                          | +1.6                       | 68       | 12    | 25      | 27    | 34                     | 0.57                      | -2.54                      | 0.22                  | T.                         | 4                             | 22     | 1           | 7       | nw.                           |                                                                                                                          |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 45.0                          |                            | 67       | 12    | 21      | 27    | 37                     | 0.74                      |                            | 0.31                  |                            | 7                             | 7      | 2           | 21      | w.                            |                                                                                                                          |
| Hammonton.....                              | Atlantic.....   | 103              | 21                       |                               |                            |          |       |         |       |                        | 0.62                      | -2.70                      | 0.32                  | 0                          | 4                             | 22     | 2           | 6       | w.                            | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 43.6                          | +0.3                       | 67       | 12    | 22      | 27    | 35                     | 0.95                      | -2.36                      | 0.50                  | T.                         | 6                             | 20     | 3           | 7       | sw.                           |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 41.8                          | -1.0                       | 65       | 14    | 20      | 27    | 43                     | 0.76                      | -2.44                      | 0.29                  | 0                          | 6                             | 19     | 2           | 9       | w.                            |                                                                                                                          |
| Indian Mills†.....                          | Burlington..... | 76               | 33                       | 45.9                          | +3.0                       | 70       | 12    | 20      | 27    | 40                     | 0.69                      | -2.39                      | 0.30                  | T.                         | 4                             | 11     | 9           | 10      | nw.                           |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 44.0                          | +1.2                       | 67       | 12    | 20      | 27    | 33                     | 1.51                      | -0.95                      | 0.38                  | T.                         | 6                             | 11     | 10          | 9       | w.                            | R. W. Holman.<br>Julius Bernstein.<br>Stokes Seed Farms Co.<br>William L. Flick.                                         |
| Lumberton.....                              | Burlington..... |                  |                          | 45.6                          |                            | 68       | 2†    | 22      | 22    | 34                     | 0.60                      |                            | 0.27                  | T.                         | 4                             | 9      | 12          | 9       | nw.                           |                                                                                                                          |
| Moorestown†.....                            | Burlington..... | 75               | 59                       | 45.4                          | +2.2                       | 70       | 12    | 24      | 27    | 35                     | 0.55                      | -2.70                      | 0.27                  | T.                         | 4                             | 14     | 8           | 8       | w.                            |                                                                                                                          |
| Northfield.....                             | Atlantic.....   | 25               | 15                       |                               |                            |          |       |         |       |                        | 0.56                      | -1.82                      | 0.29                  | 0                          | 4                             |        |             |         | .....                         |                                                                                                                          |
| Pleasantville†.....                         | Atlantic.....   | 26               | 24                       |                               |                            |          |       |         |       |                        | 0.68                      | -2.04                      | 0.35                  | 0                          | 5                             | 15     | 6           | 9       | .....                         | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 45.0                          | +0.6                       | 66       | 12    | 27      | 28    | 29                     | 0.62                      | -2.81                      | 0.35                  | T.                         | 5                             | 8      | 11          | 11      | nw.                           |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 45.8                          | +1.7                       | 70       | 12    | 17      | 27    | 41                     | 1.01                      | -2.07                      | 0.35                  | T.                         | 5                             | 13     | 12          | 5       | .....                         |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 47.0†                         | +2.9                       | 71       | 12    | 25      | 26†   | 30                     | 0.81                      | -2.30                      | 0.73                  | 0                          | 3                             |        |             |         | .....                         |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117              | 52                       | 48.1                          | +3.2                       | 69       | 12    | 30      | 26    | 22                     | 0.43                      | -2.63                      | 0.25                  | T.                         | 4                             | 7      | 11          | 12      | nw.                           |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 45.1                          | +1.3                       | 73       | 12    | 16      | 22    | 43                     | 0.77                      | -2.20                      | 0.73                  | T                          | 5                             | 15     | 6           | 9       | w.                            |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                        |                           |                            |                       |                            |                               |        |             |         |                               |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 46.4                          | +1.6                       | 66       | 12    | 28      | 26†   | 26                     | 1.25                      | -1.67                      | 0.39                  | 0                          | 7                             | 17     | 6           | 7       | nw.                           | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 47.1                          | +1.5                       | 70       | 12    | 26      | 26    | 21                     | 0.58                      | -2.65                      | 0.29                  | T.                         | 6                             | 13     | 11          | 6       | nw.                           |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17               | 38                       | 48.2                          | +0.8                       | 70       | 12    | 30      | 26    | 23                     | 0.71                      | -2.51                      | 0.39                  | 0                          | 4                             | 12     | 4           | 14      | nw.                           |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 44.4                          | +0.2                       | 66       | 12    | 26      | 26    | 26                     | 1.18                      | -2.34                      | 0.41                  | 0.3                        | 8                             | 9      | 8           | 13      | nw.                           |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 45.6                          | +1.0                       | 63       | 12    | 30      | 26    | 19                     | 1.10                      | -2.09                      | 0.46                  | 0.3                        | 7                             | 7      | 14          | 9       | sw.                           |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 46.3                          | +1.0                       | 70       | 12    | 26      | 26    | 26                     | 0.96                      | -2.25                      | 0.46                  | 0.1                        | 6                             | 12     | 8           | 10      | nw.                           |                                                                                                                          |
| For the State.....                          |                 |                  |                          | 44.3                          | +1.3                       | 73       | 12    | 13      | 26    | 44                     | 0.91                      | -2.29                      | 0.73                  | 0.2                        | 6                             | 13     | 8           | 9       | nw.                           |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion New Milford and Woodcliff are Weehawken; Northfield is Pleasantville.



Daily Precipitation for November, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |     |     |     |   |     |     |     |     |    |    |    |    |    |     |     |    |    |    |     |     |     |    |     |     |    |     |     |     |     |    | Total. |
|--------------------------------------------|-----------------|---------------|-----|-----|-----|---|-----|-----|-----|-----|----|----|----|----|----|-----|-----|----|----|----|-----|-----|-----|----|-----|-----|----|-----|-----|-----|-----|----|--------|
|                                            |                 | 1             | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9   | 10 | 11 | 12 | 13 | 14 | 15  | 16  | 17 | 18 | 19 | 20  | 21  | 22  | 23 | 24  | 25  | 26 | 27  | 28  | 29  | 30  | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |     |   |     |     |     |     |    |    |    |    |    |     |     |    |    |    |     |     |     |    |     |     |    |     |     |     |     |    |        |
| Belvidere.....                             | Delaware.....   |               |     | .30 |     |   | *   | *   | .14 |     |    |    |    |    |    | .24 |     |    |    |    |     |     |     |    | .10 |     |    |     | .02 |     |     |    | 0.86   |
| Charlotteburg.....                         | Passaic.....    |               |     | .45 |     |   | .13 |     | .06 |     |    |    |    |    |    | .15 |     |    |    |    |     | .07 |     |    |     |     |    | .05 |     |     |     |    | 0.91   |
| Culvers Lake.....                          | Delaware.....   |               | .01 | .28 | .03 |   | .01 | .11 | .04 | .01 |    |    |    |    |    | .26 |     |    |    |    |     | .04 |     |    | .02 | T.  |    | .01 | .03 |     |     |    | 0.85   |
| Dover.....                                 | Passaic.....    |               | T.  | .51 |     |   | *   | .15 | .03 |     |    |    |    |    |    | .19 |     |    |    |    |     |     | T.  |    |     |     |    | .06 |     |     |     |    | 0.96   |
| Layton.....                                | Delaware.....   |               | .01 | .36 |     |   | .05 | .07 | .08 |     |    |    |    |    |    | .30 |     |    |    |    |     | .10 |     |    |     | .14 |    | .03 | .02 |     |     |    | 1.16   |
| Newton.....                                | Delaware.....   |               | .01 | .33 | .01 |   | .04 | .04 | .06 |     |    |    |    |    |    | .26 | T.  |    |    |    |     | .12 |     |    | T.  |     |    | .04 | T.  |     |     |    | 0.91   |
| Phillipsburg.....                          | do.....         |               |     | .20 |     |   | .08 |     |     |     |    |    |    |    |    | .18 |     |    |    |    |     | .03 |     |    | T.  |     |    |     |     |     |     |    | 0.49   |
| Sussex.....                                | Hudson.....     |               | T.  | .33 | T.  |   | .02 | .14 | .09 | T.  |    |    |    |    |    | .24 |     |    |    |    |     | .16 |     |    | T.  |     |    | T.  |     |     |     |    | 0.98   |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |     |   |     |     |     |     |    |    |    |    |    |     |     |    |    |    |     |     |     |    |     |     |    |     |     |     |     |    |        |
| Bergen Point.....                          | Coast.....      |               | T.  | .52 |     |   | .04 |     | .09 |     |    |    |    |    |    | .25 |     |    |    |    |     | .19 |     |    |     | .02 |    |     | T.  | .07 |     |    | 1.18   |
| Boonton   .....                            | Passaic.....    |               |     | .56 | T.  |   |     | .13 | T.  |     |    |    |    |    |    | .01 | .16 |    |    |    |     | .02 | T.  |    |     |     |    |     |     |     |     |    | 0.88   |
| Chatham   .....                            | do.....         |               |     | .56 |     |   |     | .12 |     | T.  |    |    |    | T. |    |     | .27 |    |    |    |     | .08 |     |    |     | T.  |    | T.  | .03 |     | .04 |    | 1.10   |
| Elizabeth.....                             | Coast.....      |               |     | .47 |     |   | *   | .15 | T.  |     |    |    |    |    |    | .28 |     |    |    |    |     | .03 |     |    |     | .02 | T. |     |     | .08 |     |    | 1.03   |
| Flemington.....                            | Raritan.....    |               | T.  | .13 |     |   | .05 | .08 | T.  |     |    |    |    |    |    | .23 |     |    |    |    |     | .02 |     |    |     | T.  | T. |     | T.  | .01 |     |    | 0.62   |
| Highwood.....                              | Hackensack..... |               | T.  | .70 |     |   | .06 | .17 | .02 |     |    |    |    |    |    | .26 |     |    |    |    |     | .30 |     |    | T.  |     |    |     | .05 | T.  |     |    | 1.56   |
| Jersey City.....                           | Coast.....      |               |     | .54 |     |   | .04 | .04 | T.  |     |    |    |    |    |    | .26 |     |    |    |    |     | .20 |     |    |     | T.  | T. |     | .12 |     |     |    | 1.20   |
| Lambertville.....                          | Delaware.....   |               |     | .18 |     |   | .10 | .11 | T.  |     |    |    |    |    |    | .29 |     |    |    | T. |     | .03 |     |    |     | T.  |    |     | .13 | .03 |     |    | 0.74   |
| Little Falls,   .....                      | Passaic.....    |               |     | .67 |     |   |     | .15 | T.  |     |    |    |    |    |    |     | .28 |    |    |    | T.  | .06 |     |    |     | T.  |    |     | .10 |     |     |    | 1.26   |
| Newark**.....                              | Coast.....      |               | .36 | .17 |     |   | .07 | .05 |     |     |    |    |    |    |    | .19 |     |    |    | T. |     | .06 |     |    |     | T.  | T. |     | .13 |     |     |    | 0.97   |
| New Brunswick.....                         | Raritan.....    |               | T.  | .28 |     |   | .03 | .12 |     |     |    |    |    |    |    | .30 |     |    |    |    |     |     |     |    |     | T.  |    |     | .03 | .01 |     |    | 0.77   |
| New Milford.....                           | Hackensack..... |               |     | .14 | .18 |   | .15 | .03 |     |     |    |    |    |    |    | .22 |     |    |    |    |     | .20 |     |    |     |     |    |     | .09 |     |     |    | 1.28   |
| Paterson.....                              | Passaic.....    |               | T.  | .57 |     |   | .03 | .15 | .02 |     |    |    |    |    |    | .21 |     |    |    |    |     | .15 |     |    | T.  | T.  |    |     | T.  | .05 |     |    | 1.18   |
| Plainfield.....                            | Raritan.....    |               | T.  | .45 |     |   | .04 | .04 |     |     |    |    |    |    |    | .28 |     |    |    |    |     | T.  |     |    |     | T.  |    |     | .10 | .01 |     |    | 0.84   |
| Ridgefield**.....                          | Hackensack..... |               | *   | .50 |     |   | .22 | .02 |     |     |    |    |    |    |    | .28 |     |    |    |    |     | .20 |     |    |     | T.  |    |     | .12 |     |     |    | 1.32   |
| Somerville.....                            | Raritan.....    |               |     | .32 |     |   | .03 | .04 |     |     |    |    |    |    |    | .24 |     |    |    |    |     | .04 |     |    |     | T.  |    |     |     |     |     |    | 0.67   |
| South Orange.....                          | Rahway.....     |               | T.  | .55 |     |   | *   | .16 | T.  |     |    |    |    |    |    | *   |     |    |    |    |     | .53 |     |    |     |     | T. |     | .05 |     |     |    | 1.29   |
| Woodcliff Lake.....                        | Hackensack..... |               |     | .35 |     |   | *   | .07 |     |     |    |    |    |    |    | .12 |     |    |    |    |     | .13 |     |    |     |     |    |     |     |     |     |    | 0.67   |
| New York, N. Y***                          | Coast.....      |               |     | .06 | .49 |   | .07 | T.  | T.  |     |    |    |    |    |    | .24 |     |    |    |    |     | .20 |     |    |     | T.  | T. |     | .10 |     |     |    | 1.16   |
| <i>The Southern Interior.</i>              |                 |               |     |     |     |   |     |     |     |     |    |    |    |    |    |     |     |    |    |    |     |     |     |    |     |     |    |     |     |     |     |    |        |
| Belle Plain.....                           | Tuckahoe.....   |               |     | .11 |     |   | *   | .52 |     |     |    |    |    |    |    | .21 | .08 |    |    |    |     | .07 | .02 |    |     |     |    |     |     |     |     |    | 1.01   |
| Bridgeton.....                             | Coast.....      |               |     | .02 |     |   | *   | .35 |     |     |    |    |    |    |    | .25 |     |    |    |    |     | .05 |     |    |     |     |    |     |     |     |     |    | 0.67   |
| Burlington.....                            | Delaware.....   |               |     | .15 | T.  |   | *   | .20 |     |     |    |    |    |    |    | .22 | T.  |    |    |    |     | .09 |     |    |     |     |    |     | T.  | T.  |     |    | 0.57   |
| Camp Dix   .....                           | Delaware.....   |               | .12 | .02 |     |   | .23 | .01 |     |     |    |    |    |    |    | .31 |     |    |    |    |     | .02 |     |    |     |     |    |     | .03 |     |     |    | 0.74   |
| Hammonton.....                             | Mullica.....    |               |     | .06 |     |   |     | .32 |     |     |    |    |    |    |    | .23 | .01 |    |    |    |     |     |     |    |     |     |    |     |     |     |     |    | 0.62   |
| Hightstown.....                            | Raritan.....    |               |     | .10 |     |   | .10 | .15 |     |     |    |    |    |    |    | .50 | .05 |    |    |    |     |     |     |    |     |     |    |     | .05 |     |     |    | 0.95   |
| Imlaystown.....                            | Delaware.....   |               |     | .11 |     |   |     | .28 |     |     |    |    |    |    |    | .29 | .03 |    |    |    |     |     |     |    |     |     |    |     | .01 | .04 |     |    | 0.76   |
| Indian Mills.....                          | Mullica.....    |               | T.  | .08 |     |   |     | .30 |     |     |    |    |    |    |    | .26 |     |    |    |    |     |     |     |    |     |     |    |     |     | .05 |     |    | 0.69   |
| Lakewood.....                              | Metedeconk..... |               | T.  | .30 |     |   | .10 | .38 |     |     |    |    |    |    |    | .28 |     |    |    |    |     | .35 |     |    |     |     |    |     | .10 | T.  |     |    | 1.51   |
| Lumberton.....                             | Delaware.....   |               |     | .05 |     |   |     | .24 |     |     |    |    |    |    |    | .27 | .04 |    |    |    |     |     |     |    |     | T.  |    |     |     |     |     |    | 0.60   |
| Moorestown.....                            | Delaware.....   |               |     | .06 |     |   |     | .20 |     |     |    |    |    |    |    | .27 |     |    |    |    |     |     |     |    |     |     | T. |     |     |     |     |    | 0.55   |
| Northfield.....                            | Coast.....      |               |     | .05 |     |   |     | .29 |     |     |    |    |    |    |    | .20 |     |    |    |    |     | .02 |     |    |     |     |    |     |     |     |     |    | 0.56   |
| Pleasantville.....                         | Coast.....      |               | T.  | .03 |     |   | .05 | .30 |     |     |    |    |    |    |    | .28 |     |    |    |    |     |     |     |    |     |     |    |     | T.  |     |     |    | 0.68   |
| Trenton***.....                            | Delaware.....   |               | T.  | .06 |     |   | .10 | .10 | T.  |     |    |    |    |    |    | .35 |     |    |    |    |     | T.  |     |    |     |     |    |     | .01 |     |     |    | 0.62   |
| Tuckerton.....                             | Coast.....      |               |     | .18 |     |   |     | .33 |     |     |    |    |    |    |    | .11 |     |    |    |    |     | .35 |     |    |     |     |    |     |     |     |     |    | 1.01   |
| Vineland.....                              | Maurice.....    |               |     | .06 |     |   | .02 |     |     |     |    |    |    |    |    | .73 |     |    |    |    |     |     |     |    |     |     |    |     |     |     |     |    | 0.81   |
| Philadelphia, Pa.....                      | Delaware.....   |               | T.  | .06 |     |   | .03 | .09 |     |     |    |    |    |    |    | .25 |     |    |    |    |     | T.  |     |    |     |     | T. |     |     |     |     |    | 0.43   |
| <i>The Sea Coast.</i>                      |                 |               |     |     |     |   |     |     |     |     |    |    |    |    |    |     |     |    |    |    |     |     |     |    |     |     |    |     |     |     |     |    |        |
| Asbury Park.....                           | Coast.....      |               |     | .39 |     |   | .30 | .05 | T.  |     |    |    |    |    |    | .22 |     |    |    |    |     | .20 |     |    |     |     |    |     | .09 |     |     |    | 1.25   |
| Atlantic City,***                          | do.....         |               | T.  | .02 |     |   | .03 | .26 |     |     |    |    |    |    |    | .20 |     |    |    |    | .02 |     | .05 |    |     |     |    | T.  |     |     |     |    | 0.58   |
| Cape May City.....                         | do.....         |               |     | .01 |     |   |     | .31 |     |     |    |    |    |    |    | .38 | .01 |    |    |    | T.  | T.  |     |    |     |     |    |     |     |     |     |    | 0.71   |
| Long Branch**.....                         | do.....         |               | .10 | .30 |     |   | .11 | .06 | T.  |     |    |    |    |    |    | .18 |     |    |    |    |     | .41 |     |    |     |     | T. |     | .01 | .01 |     |    | 1.18   |
| Sandy Hook***.....                         | do.....         |               | .07 | .39 |     |   | .07 | .01 | T.  |     |    |    |    |    |    | .23 |     |    |    |    |     |     |     |    |     | T.  | T. |     | .06 |     |     |    | 1.10   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-                                       |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.09         | 30.47    | 13    | 29.51   | 24    | 16               | 45              | nw.        | 24        | 77                                         | 72                                         | 59                                  |
| Cape May City.....    | 30.12         | 30.47    | 10    | 29.65   | 27    | 10               | 31              | nw.        | 24        | 73                                         | 75                                         | .....                               |
| Long Branch.....      | 30.07         | 30.41    | 13    | 29.48   | 24    | .....            | 46              | w.         | 8         | 72                                         | 68                                         | 56                                  |
| Newark.....           |               |          |       |         |       |                  |                 |            |           | 66*                                        | 61†                                        | 62                                  |
| New York, N. Y.....   | 30.05         | 30.43    | 13    | 29.45   | 23    | 18               | 64              | nw.        | 8         | 71                                         | 64                                         | 49                                  |
| Philadelphia, Pa..... | 30.09         | 30.41    | 13    | 29.52   | 23    | 10               | 32              | nw.        | 24        | 68                                         | 58                                         | 51                                  |
| Ridgefield.....       | 30.06         | 30.44    | 13    | 29.46   | 23    | .....            |                 |            |           |                                            |                                            |                                     |
| Sandy Hook.....       | 30.05         | 30.45    | 13    | 29.43   | 24    | 16               | 51              | nw.        | 24        | 73                                         | 71                                         | 53                                  |
| Trenton.....          | 30.06         | 30.46    | 13    | 29.47   | 24    | 11               | 46              | nw.        | 24        | 75                                         | 63                                         | 49                                  |

‡ Two directions and dates

\* 7 a. m. † 9 p. m.



## Daily Temperatures for November, 1922.

| Stations.                           | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13   | 14   | 15 | 16 | 17 | 18 | 19 | 20   | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean. |      |
|-------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|------|------|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|----|------|-------|------|
| The Highlands and Killarney Valley. |         |    |    |    |    |    |    |    |    |    |    |    |      |      |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |      |       |      |
| Belvidere.....                      | Maximum | 65 | 58 | 51 | 55 | 64 | 57 | 50 | 58 | 45 | 55 | 52 | 66   | 63   | 54 | 55 | 54 | 54 | 55 | 55   | 42 | 41 | 40 | 45 | 39 | 35 | 36 | 38 | 39 | 41 | 47   | 50.3  |      |
|                                     | Minimum | 26 | 27 | 45 | 45 | 45 | 37 | 45 | 42 | 39 | 28 | 26 | .... | 39   | 24 | 43 | 35 | 26 | 36 | 36   | 34 | 27 | 27 | 31 | 32 | 26 | 25 | 22 | 19 | 21 | 28   | 32.3* |      |
| Charlotteburg.....                  | Maximum | 65 | 63 | 50 | 54 | 58 | 58 | 57 | 59 | 50 | 55 | 63 | 63   | 55   | 57 | 56 | 47 | 54 | 54 | 60   | 53 | 45 | 36 | 45 | 40 | 36 | 34 | 34 | 38 | 43 | 51   | 51.1  |      |
|                                     | Minimum | 31 | 20 | 43 | 41 | 44 | 31 | 39 | 40 | 38 | 30 | 35 | 49   | 30   | 25 | 47 | 37 | 24 | 36 | .... | 30 | 30 | 26 | 26 | 30 | 24 | 22 | 14 | 23 | 27 | 34   | 31.9* |      |
| Dover.....                          | Maximum | 65 | 61 | 51 | 55 | 60 | 56 | 56 | 58 | 53 | 55 | 63 | 65   | 58   | 56 | 57 | 47 | 53 | 58 | 61   | 54 | 42 | 38 | 45 | 41 | 33 | 35 | 35 | 40 | 43 | 51   | 51.5  |      |
|                                     | Minimum | 29 | 26 | 45 | 45 | 37 | 36 | 51 | 41 | 35 | 30 | 36 | 46   | 33   | 27 | 42 | 33 | 27 | 36 | 36   | 37 | 30 | 27 | 28 | 30 | 25 | 18 | 20 | 27 | 28 | 32   | 50    |      |
| Layton.....                         | Maximum | 65 | 58 | 55 | 50 | 51 | 51 | 53 | 51 | 45 | 51 | 61 | 62   | 57   | 49 | 53 | 46 | 54 | 58 | 64   | 54 | 45 | 38 | 45 | 40 | 35 | 35 | 30 | 39 | 45 | 50   | 50.1  |      |
|                                     | Minimum | 22 | 21 | 41 | 40 | 42 | 34 | 45 | 39 | 37 | 27 | 22 | 43   | 32   | 19 | 42 | 37 | 23 | 27 | 35   | 32 | 32 | 23 | 25 | 30 | 26 | 21 | 17 | 14 | 26 | 25   | 30.0  |      |
| Newton.....                         | Maximum | 61 | 58 | 55 | 53 | 58 | 55 | 54 | 55 | 48 | 53 | 62 | 64   | 56   | 53 | 46 | 52 | 55 | 60 | 52   | 46 | 37 | 43 | 42 | 33 | 34 | 33 | 38 | 42 | 51 | 50.1 |       |      |
|                                     | Minimum | 27 | 31 | 44 | 44 | 45 | 42 | 45 | 40 | 36 | 29 | 35 | 47   | 30   | 30 | 45 | 38 | 31 | 36 | 42   | 45 | 31 | 27 | 28 | 32 | 25 | 23 | 21 | 21 | 29 | .... | 34.4* |      |
| Phillipsburg.....                   | Maximum | 66 | 61 | 52 | 54 | 62 | 54 | 52 | 58 | 50 | 59 | 66 | 63   | 57   | 58 | 53 | 46 | 53 | 55 | 64   | 62 | 51 | 45 | 45 | 41 | 34 | 35 | 34 | 41 | 46 | 50   | 52.2  |      |
|                                     | Minimum | 22 | 22 | 43 | 44 | 44 | 35 | 48 | 40 | 38 | 29 | 31 | 41   | 31   | 22 | 45 | 33 | 32 | 34 | 33   | 35 | 34 | 27 | 25 | 32 | 27 | 25 | 17 | 25 | 24 | .... | 32.1  |      |
| The Red Sandstone Plain.            |         |    |    |    |    |    |    |    |    |    |    |    |      |      |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |      |       |      |
| Bergen Point.....                   | Maximum | 65 | 64 | 55 | 55 | 61 | 58 | 57 | 60 | 54 | 57 | 63 | 67   | 58   | 55 | 60 | 49 | 55 | 54 | 57   | 56 | 55 | 41 | 46 | 41 | 37 | 39 | 40 | 39 | 45 | 53   | 53.2  |      |
|                                     | Minimum | 39 | 36 | 41 | 42 | 47 | 43 | 52 | 45 | 41 | 37 | 37 | 48   | 39   | 34 | 49 | 41 | 33 | 36 | 44   | 43 | 34 | 32 | 32 | 35 | 30 | 29 | 28 | 30 | 30 | 34   | ....  | 38.0 |
| Boonton§§.....                      | Maximum | 67 | 60 | 51 | 55 | 61 | 58 | 56 | 59 | 52 | 51 | 63 | 65   | 58   | 55 | 59 | 47 | 53 | 55 | 62   | 55 | 43 | 39 | 41 | 42 | 31 | 31 | 33 | 42 | 44 | 50   | 51.4  |      |
|                                     | Minimum | 33 | 23 | 28 | 43 | 45 | 32 | 38 | 45 | 41 | 30 | 27 | 30   | 29   | 23 | 31 | 40 | 25 | 31 | 31   | 33 | 36 | 27 | 26 | 30 | 27 | 13 | 16 | 24 | 26 | 29   | 30.4  |      |
| Elizabeth.....                      | Maximum | 63 | 65 | 58 | 53 | 62 | 59 | 58 | 63 | 56 | 56 | 63 | 69   | 62   | 55 | 60 | 53 | 55 | 55 | 64   | 58 | 50 | 42 | 47 | 45 | 38 | 38 | 40 | 41 | 44 | 52   | 54.1  |      |
|                                     | Minimum | 32 | 30 | 47 | 46 | 49 | 39 | 53 | 48 | 38 | 29 | 32 | 48   | 36   | 28 | 48 | 38 | 28 | 36 | 40   | 40 | 36 | 28 | 28 | 35 | 28 | 27 | 23 | 26 | 31 | 27   | 35.8  |      |
| Flemington.....                     | Maximum | 67 | 62 | 56 | 58 | 65 | 62 | 58 | 60 | 55 | 60 | 65 | 68   | 61   | 57 | 60 | 51 | 55 | 53 | 67   | 57 | 49 | 41 | 46 | 46 | 40 | 40 | 42 | 49 | 54 | 54.8 |       |      |
|                                     | Minimum | 33 | 28 | 48 | 46 | 48 | 36 | 52 | 45 | 39 | 31 | 28 | 46   | 35   | 25 | 45 | 38 | 26 | 30 | 38   | 37 | 35 | 28 | 30 | 29 | 27 | 23 | 26 | 31 | 27 | .... | 34.6  |      |
| Highwood.....                       | Maximum | 60 | 64 | 50 | 52 | 56 | 56 | 55 | 58 | 53 | 54 | 61 | 67   | 56   | 54 | 58 | 48 | 54 | 54 | 61   | 55 | 47 | 41 | 44 | 43 | 36 | 36 | 39 | 38 | 42 | 48   | 51.3  |      |
|                                     | Minimum | 34 | 26 | 45 | 45 | 41 | 36 | 51 | 43 | 37 | 28 | 33 | 43   | 36   | 25 | 44 | 37 | 27 | 35 | 37   | 37 | 32 | 28 | 24 | 34 | 30 | 22 | 21 | 29 | 21 | 28   | 33.6  |      |
| Jersey City.....                    | Maximum | 63 | 61 | 52 | 56 | 60 | 60 | 59 | 61 | 53 | 56 | 60 | 68   | 58   | 56 | 60 | 48 | 53 | 54 | 63   | 57 | 47 | 41 | 44 | 42 | 40 | 38 | 40 | 41 | 44 | 52   | 52.9  |      |
|                                     | Minimum | 41 | 42 | 45 | 45 | 49 | 46 | 50 | 44 | 41 | 36 | 39 | 48   | 39   | 37 | 47 | 38 | 35 | 39 | 46   | 43 | 36 | 32 | 31 | 32 | 29 | 29 | 29 | 30 | 33 | 35   | 38.9  |      |
| Lambertville.....                   | Maximum | 54 | 61 | 54 | 57 | 59 | 57 | 57 | 57 | 51 | 52 | 60 | 64   | 60   | 56 | 59 | 49 | 52 | 53 | 60   | 53 | 46 | 37 | 43 | 44 | 38 | 35 | 39 | 40 | 43 | 52   | 51.6  |      |
|                                     | Minimum | 32 | 37 | 42 | 46 | 46 | 42 | 47 | 44 | 38 | 28 | 32 | 45   | 36   | 37 | 49 | 37 | 30 | 35 | 44   | 42 | 32 | 27 | 28 | 37 | 28 | 26 | 23 | 22 | 30 | 31   | 35.8  |      |
| Little Falls§§.....                 | Maximum | 68 | 65 | 49 | 55 | 62 | 59 | 57 | 62 | 55 | 57 | 66 | 68   | 60   | 58 | 59 | 50 | 55 | 59 | 63   | 57 | 43 | 40 | 46 | 43 | 36 | 38 | 38 | 41 | 45 | 52   | 53.5  |      |
|                                     | Minimum | 28 | 27 | 32 | 44 | 46 | 36 | 45 | 47 | 41 | 30 | 31 | 48   | 34   | 27 | 40 | 40 | 27 | 36 | 38   | 37 | 37 | 29 | 28 | 30 | 29 | 27 | 20 | 28 | 28 | 31   | 34.0  |      |
| Newark.....                         | Maximum | 66 | 63 | 53 | 54 | 60 | 58 | 56 | 60 | 53 | 55 | 62 | 66   | 58   | 54 | 57 | 47 | 54 | 54 | 62   | 53 | 42 | 38 | 45 | 42 | 35 | 35 | 36 | 40 | 45 | 52   | 51.8  |      |
|                                     | Minimum | 39 | 38 | 46 | 46 | 50 | 45 | 51 | 44 | 38 | 36 | 36 | 47   | 44   | 38 | 43 | 38 | 35 | 39 | 46   | 42 | 33 | 32 | 31 | 32 | 29 | 28 | 28 | 32 | 36 | .... | 38.4  |      |
| New Brunswick.....                  | Maximum | 63 | 63 | 59 | 55 | 61 | 60 | 58 | 62 | 53 | 55 | 61 | 67   | 62   | 56 | 60 | 51 | 54 | 54 | 62   | 59 | 50 | 41 | 45 | 45 | 44 | 38 | 42 | 42 | 48 | 55   | 54.2  |      |
|                                     | Minimum | 30 | 30 | 37 | 45 | 48 | 40 | 52 | 46 | 39 | 28 | 33 | 47   | 37   | 27 | 48 | 38 | 27 | 35 | 39   | 35 | 28 | 28 | 35 | 32 | 28 | 22 | 26 | 27 | 32 | 35.3 |       |      |
| Paterson.....                       | Maximum | 68 | 66 | 59 | 54 | 61 | 57 | 55 | 62 | 55 | 58 | 66 | 69   | .... | 58 | 60 | 50 | 56 | 59 | 65   | 57 | 49 | 41 | 45 | 45 | 44 | 38 | 42 | 42 | 48 | 55   | 54.0* |      |
|                                     | Minimum | 32 | 34 | 46 | 45 | 49 | 38 | 51 | 48 | 41 | 35 | 33 | 47   | 36   | 34 | 48 | 41 | 33 | 39 | 45   | 40 | 36 | 30 | 29 | 32 | 31 | 28 | 25 | 30 | 30 | 33   | 37.2  |      |
| Plainfield.....                     | Maximum | 63 | 64 | 55 | 55 | 62 | 60 | 58 | 62 | 53 | 58 | 63 | 68   | 59   | 54 | 60 | 51 | 55 | 55 | 63   | 57 | 48 | 43 | 44 | 43 | 42 | 38 | 39 | 42 | 44 | 53   | 53.7  |      |
|                                     | Minimum | 36 | 26 | 47 | 45 | 42 | 35 | 51 | 45 | 40 | 28 | 32 | 46   | 34   | 24 | 47 | 35 | 25 | 35 | 63   | 57 | 48 | 43 | 44 | 43 | 42 | 38 | 39 | 42 | 44 | 53   | 53.7  |      |
| Ridgefield.....                     | Maximum | 61 | 63 | 51 | 51 | 57 | 56 | 56 | 60 | 53 | 54 | 62 | 67   | 58   | 55 | 59 | 49 | 53 | 55 | 61   | 55 | 45 | 39 | 44 | 42 | 35 | 36 | 39 | 37 | 42 | 52   | 51.6  |      |
|                                     | Minimum | 31 | 29 | 45 | 45 | 40 | 39 | 49 | 43 | 35 | 30 | 35 | 45   | 34   | 30 | 41 | 34 | 31 | 37 | 42   | 29 | 28 | 27 | 32 | 28 | 24 | 24 | 27 | 25 | 32 | .... | 34.4  |      |
| Somerville.....                     | Maximum | 65 | 64 | 57 | 58 | 63 | 61 | 59 | 62 | 54 | 56 | 64 | 68   | 60   | 55 | 60 | 51 | 56 | 55 | 64   | 56 | 52 | 44 | 48 | 45 | 38 | 38 | 41 | 44 | 45 | 54   | 54.6  |      |
|                                     | Minimum | 29 | 27 | 46 | 46 | 46 | 35 | 53 | 45 | 38 | 30 | 25 | 39   | 32   | 23 | 44 | 37 | 23 | 28 | 33   | 35 | 33 | 26 | 25 | 29 | 28 | 27 | 18 | 24 | 27 | .... | 32.5  |      |
| South Orange.....                   | Maximum | 56 | 60 | 55 | 57 | 56 | 57 | 57 | 59 | 52 | 52 | 62 | 64   | 55   | 53 | 59 | 50 | 52 | 53 | 60   | 54 | 44 | 44 | 44 | 42 | 36 | 35 | 39 | 38 | 42 | 50   | 51.2  |      |
|                                     | Minimum | 38 | 35 | 45 | 44 | 42 | 39 | 51 | 39 | 38 | 32 | 34 | 42   | 37   | 32 | 48 | 36 | 31 | 37 | 43   | 48 | 32 | 29 | 28 | 33 | 28 | 27 | 25 | 27 | 32 | .... | 35.9  |      |
| New York, N. Y.....                 | Maximum | 62 | 60 | 52 | 54 | 58 | 58 | 58 | 60 | 53 | 54 | 59 | 65   | 58   | 55 | 59 | 47 | 54 | 54 | 62   | 56 | 43 | 40 | 44 | 42 | 35 | 36 | 40 | 40 | 45 | 52   | 51.8  |      |
|                                     | Minimum | 42 | 43 | 45 | 45 | 50 | 46 | 51 | 44 | 38 | 37 | 39 | 48   | 39   | 40 | 45 | 39 | 36 | 40 | 46   | 43 | 32 | 32 | 31 | 33 | 28 | 27 | 29 | 30 | 33 | 35   |       |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVII.

DECEMBER, 1922.

No. 12.

GENERAL SUMMARY.

With the termination of December the second consecutive year with a notable deficiency of accumulated precipitation has passed into climatological history. The year was also slightly above normal in warmth, as was also 1921. The month of December itself was practically normal, with the usual amount of snow, freezing nights and thawing days, but with a slight surplus of frequency of precipitation and deficiency of sunshine. From the 1st to the 5th, and from the 21st to the 27th temperatures were mostly above normal, and somewhat below normal the remaining periods of the month. Small bodies of still water became mostly frozen by the 15th, except in southern districts, and continued closed over with ice through the close of the month. The Delaware river remained open, except in some of the extreme upper reaches.

Moderate snow storms were frequent and occurred on the 7th, 14th, 17th, 23d, 28th and 29th and in the southern half of the State on the 10th. Rain occurred on the 3d, 5th, 8th, 12th, 15th and 21st.

The storm of the 28th-29th was attended by gales which were severe just off the coast, and was followed by the lowest temperature of the month; readings below zero having occurred in the interior and northern districts. There was slight damage from sleet in northeastern districts during the storm, caused principally by wind against ice-laden wires. Very good sleighing prevailed in northern counties after the storm.

Storm warnings were displayed along the coast on the 4th, 5th, 9th, 11th, 12th, 17th, 20th, 22d, 27th, 28th, and 31st.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 32.5°, which is 0.4° below the normal. The highest temperature was 65° at Tuckerton on the 1st, and the lowest, 8° below zero at Sussex on the 30th. The greatest daily range of temperature was 41° at Sussex on the 30th and Belle Plain on the 31st. The highest monthly mean was 38.3° at Cape May City, and the lowest, 27.6° at Layton.

The temperature departure from the normal for the year 1922, by sections, is: The Highlands, +1.1°; Red Sandstone Plain, +0.8°; Southern Interior, +1.3°; Sea Coast, +1.2°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 42 stations, was 3.86 inches, which is 0.11 inch below the normal. The greatest monthly precipitation was 5.26 inches at Pleasantville, and the least, 3.09 inches at Newton. The average total snowfall was 7.3 inches, which was 0.1 inch above the normal; this average ranged from 8.9 inches in The Highlands to 5.0 inches in the Southern Interior. The greatest precipitation accumulated in any 24 consecutive hours was 2.52 inches at Atlantic City on the 28th. The average number of days on which 0.01 inch or more of precipitation fell was 12, or 3 more than the normal.

The precipitation accumulated departure from the normal for the year 1922, by sections, is: The Highlands, -5.71 inches; Red Sandstone Plain, -3.05 inches; Southern Interior, -6.61 inches; Sea Coast, -6.35 inches.

### WIND.

The prevailing wind direction was from the northwest, which was normal. The wind movement averaged 12 miles per hour, which was 2 miles below the normal. The highest velocity, sustained for 5 consecutive minutes, was 60 miles per hour from the northeast at Atlantic City on the 28th. High winds were noted also on the 12th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 9, which was 3 less than the normal; partly cloudy, 9, or normal; cloudy, 13, which was 3 more than the normal. The per cent of possible sunshine was 39, which was 13 per cent below the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.15 inches, which was 0.05 inch above the normal. The highest reading was 30.70 inches at Ridgefield on the 11th, and the lowest, 29.28 inches at Atlantic City and Cape May City on the 28th.

The mean stage of the Delaware River at Phillipsburg was 0.4 foot, and the highest stage, 0.7 foot on the 28th and 31st. At Trenton the mean daily stage was 0.1 foot, which was 2.5 feet below the normal. The highest stage was 0.4 foot on the 24th, 25th, 29th, and 30th, and the lowest, -0.2 foot on the 1st and 2d.

Dense fog occurred on the 1st, 3d, 4th, 5th, 7th, 8th, 9th, 12th, 15th, 17th, 24th, 25th, 26th, 27th, and 28th. Sleet was observed generally throughout the State on the night of the 28th-29th, the fall averaging an inch; while small amounts fell at several stations on the 3d, 4th, 7th, 8th, 11th, 12th, 14th, 16th, 17th, and 21st.

Solar halos were observed on the 3d, 4th, 9th, 11th, 13th, and 24th, and lunar halos on the 2d, 11th, 24th, and 30th.

### COMPARATIVE DATA FOR DECEMBER.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                       |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|-----------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | of inch or more prec. |
| 1885..... | 35.3         | 60       | 6       | 3.15           | 4.33      | 2.47   | .....        | .....          | .....   | .....                 |
| 1886..... | 29.1         | 60       | -2      | 3.51           | 4.65      | 1.62   | .....        | .....          | .....   | .....                 |
| 1887..... | 33.7         | 62       | 6       | 5.29           | 7.32      | 3.64   | .....        | .....          | 12      | 10                    |
| 1888..... | 34.9         | 65       | 5       | 3.69           | 4.95      | 2.05   | .....        | .....          | 8       | 8                     |
| 1889..... | 41.5         | 71       | 8       | 1.62           | 3.69      | 0.25   | .....        | .....          | 9       | 9                     |
| 1890..... | 30.9         | 56       | 3       | 3.89           | 5.74      | 2.34   | 11           | 10             | 10      | 8                     |
| 1891..... | 40.9         | 71       | 9       | 4.25           | 5.32      | 2.25   | 13           | 9              | 9       | 8                     |
| 1892..... | 30.4         | 68       | 1       | 1.87           | 3.09      | 1.30   | 9            | 11             | 11      | 6                     |
| 1893..... | 34.9         | 70       | 5       | 3.39           | 4.66      | 1.67   | 11           | 10             | 10      | 11                    |
| 1894..... | 34.8         | 66       | -3      | 4.36           | 6.39      | 1.64   | 12           | 9              | 10      | 9                     |
| 1895..... | 37.2         | 70       | 3       | 2.61           | 5.42      | 1.71   | 11           | 9              | 11      | 6                     |
| 1896..... | 31.3         | 64       | -15     | 1.43           | 2.70      | 0.85   | 14           | 9              | 8       | 4                     |
| 1897..... | 35.1         | 69       | -3      | 4.90           | 6.44      | 3.07   | 8            | 11             | 12      | 11                    |
| 1898..... | 33.3         | 66       | -2      | 3.53           | 4.85      | 2.38   | 12           | 10             | 9       | 9                     |
| 1899..... | 35.5         | 69       | -1      | 2.11           | 4.30      | 1.29   | 14           | 10             | 7       | 7                     |
| 1900..... | 34.4         | 64       | -2      | 2.59           | 3.97      | 1.47   | 14           | 10             | 7       | 6                     |
| 1901..... | 32.6         | 68       | -8      | 7.30           | 9.45      | 4.87   | 12           | 9              | 10      | 11                    |
| 1902..... | 31.7         | 62       | -11     | 7.23           | 8.99      | 5.81   | 13           | 7              | 11      | 13                    |
| 1903..... | 28.6         | 56       | -13     | 4.08           | 5.49      | 3.20   | 14           | 9              | 8       | 9                     |
| 1904..... | 27.0         | 60       | -15     | 3.19           | 5.38      | 2.06   | 10           | 7              | 14      | 12                    |
| 1905..... | 36.3         | 61       | 5       | 3.65           | 5.60      | 2.58   | 14           | 8              | 9       | 7                     |
| 1906..... | 33.0         | 70       | -5      | 3.99           | 6.18      | 2.70   | 9            | 8              | 14      | 13                    |
| 1907..... | 36.6         | 70       | -3      | 4.91           | 7.13      | 3.55   | 12           | 8              | 11      | 9                     |
| 1908..... | 34.0         | 72       | 1       | 3.63           | 5.26      | 2.10   | 10           | 8              | 13      | 11                    |
| 1909..... | 29.8         | 60       | -15     | 4.45           | 5.51      | 3.55   | 14           | 8              | 9       | 5                     |
| 1910..... | 26.5         | 58       | -14     | 2.79           | 4.60      | 1.92   | 11           | 10             | 10      | 9                     |
| 1911..... | 38.4         | 70       | 2       | 3.77           | 5.09      | 2.94   | 10           | 7              | 14      | 11                    |
| 1912..... | 36.9         | 68       | -1      | 4.73           | 6.33      | 3.40   | 12           | 9              | 10      | 9                     |
| 1913..... | 37.7         | 63       | -11     | 3.03           | 4.59      | 1.47   | 13           | 9              | 9       | 7                     |
| 1914..... | 31.1         | 66       | -9      | 5.33           | 9.12      | 2.99   | 10           | 6              | 15      | 12                    |
| 1915..... | 31.9         | 64       | 3       | 4.82           | 7.83      | 2.19   | 12           | 9              | 10      | 8                     |
| 1916..... | 32.3         | 70       | -8      | 4.61           | 6.34      | 3.35   | 13           | 8              | 10      | 11                    |
| 1917..... | 24.8         | 54       | -21     | 3.18           | 5.46      | 1.55   | 13           | 7              | 11      | 8                     |
| 1918..... | 37.5         | 66       | 9       | 3.92           | 4.94      | 3.21   | 12           | 7              | 12      | 10                    |
| 1919..... | 28.8         | 67       | -18     | 2.98           | 5.14      | 1.84   | 10           | 8              | 13      | 12                    |
| 1920..... | 36.4         | 69       | 7       | 5.10           | 6.63      | 2.86   | 11           | 8              | 12      | 8                     |
| 1921..... | 32.3         | 64       | -4      | 2.37           | 3.23      | 1.62   | 13           | 8              | 10      | 9                     |
| 1922..... | 32.5         | 65       | -8      | 3.86           | 5.26      | 3.09   | 9            | 9              | 13      | 12                    |



## Climatological Data for December, 1922.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                             |        | Prevailing direction of wind. | Observers. |             |                           |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|-----------------------------|--------|-------------------------------|------------|-------------|---------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation, in. or more. | Clear. |                               |            | Pt. cloudy. | Cloudy.                   |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |                               |            |             |                           |
| Belvidere.....                       | Warren.....     | 289              | 31                       | 29.2                          | -1.4                       | 47       | 1     | 6       | 30    | 26                        | 3.17   | -0.90                      | 0.74                  | 4.2                        | 11                          | 15     | 5                             | 11         | .....       | Samuel J. Hixson.         |
| Charlotteburg.....                   | Passaic.....    | 719              | 30                       | 28.8                          | -1.0                       | 55       | 1     | -1      | 20    | 35                        | 3.46   | -0.87                      | 0.70                  | 7.5                        | 12                          | 9      | 8                             | 14         | nw.         | Newark Water Dept.        |
| Culvers Lake†.....                   | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | -1      | 30    | .....                     | 3.30   | -0.36                      | 0.71                  | 15.2                       | 11                          | 9      | 10                            | 12         | e.          | Brice E. Riker.           |
| Dover.....                           | Morris.....     | 600              | 38                       | 29.1                          | -0.8                       | 53       | 1     | 7       | 19†   | 30                        | 3.34   | -0.96                      | 1.39                  | 5.5                        | 12                          | 3      | 19                            | 9          | .....       | William C. Harris.        |
| Layton.....                          | Sussex.....     | 480              | 21                       | 27.6                          | +0.2                       | 57       | 2     | -6      | 30    | 36                        | 3.31   | -0.63                      | 1.12                  | 13.5                       | 10                          | 11     | 3                             | 17         | ne.         | A. M. Depue.              |
| Newton.....                          | Sussex.....     | 769              | 39                       | 28.3                          | -1.8                       | 53       | 2     | 2       | 30    | 25                        | 3.09   | -0.62                      | 0.72                  | 8.6                        | 10                          | 10     | 10                            | 11         | sw.         | Irving G. Kern.           |
| Phillipsburg.....                    | Warren.....     | 363              | 49                       | 31.8                          | +0.5                       | 53       | 6     | 11      | 30    | 29                        | .....  | .....                      | .....                 | .....                      | 9                           | 10     | 10                            | 12         | .....       | Town Engineer.            |
| Sussex.....                          | Sussex.....     | 442              | 28                       | 28.8°                         | -1.1                       | 56       | 1     | -8      | 30    | 41                        | 3.14   | -0.42                      | 1.21                  | 8.0                        | 11                          | .....  | .....                         | .....      | ne.         | Rev. W. August George     |
| Means and extremes...                |                 |                  |                          | 29.1                          | -0.8                       | 57       | 2     | -8      | 30    | 41                        | 3.26   | -0.68                      | 1.39                  | 8.9                        | 11                          | 10     | 9                             | 12         | ne.         |                           |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |                               |            |             |                           |
| Bergen Point††.....                  | Hudson.....     | 37               | 25                       | 33.7                          | +0.7                       | 56       | 1     | 14      | 30    | 24                        | §      | .....                      | .....                 | 9.0                        | 11                          | 4      | 10                            | 17         | ne.         | William H. Mitchell.      |
| Boonton.....                         | Morris.....     | 400              | §32                      | 28.0                          | -2.5                       | 56       | 1     | 4       | 20    | 37                        | 3.42   | -0.56                      | 0.70                  | .....                      | 11                          | 13     | 3                             | 15         | ne.         | John Klue.                |
| Chatham.....                         | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.70   | +0.53                      | 0.96                  | .....                      | 11                          | 13     | 12                            | 6          | .....       | Paul Molitor, Sr.         |
| Elizabeth.....                       | Union.....      | 45               | 43                       | 32.9                          | -0.4                       | 56       | 1     | 7       | 30    | 27                        | 4.17   | +0.21                      | .....                 | 7.5                        | 12                          | 5      | 14                            | 12         | ne.         | L. B. Bonnett.            |
| Flemington.....                      | Hunterdon.....  | 140              | §36                      | 32.5                          | +0.5                       | 57       | 1     | 11      | 19    | 30                        | 3.56   | -0.20                      | 1.09                  | 8.5                        | 13                          | 11     | 7                             | 13         | sw.         | Hiram E. Deats.           |
| Highwood.....                        | Bergen.....     | 90               | 34                       | 31.0                          | -0.8                       | 57       | 12    | 7       | 30    | 24                        | 3.74   | -0.47                      | 1.30                  | §                          | 9                           | 8      | 12                            | 11         | e.          | Grant McQuaid.            |
| Jersey City.....                     | Hudson.....     | 10               | 24                       | 34.2                          | +0.1                       | 56       | 1     | 12      | 30    | 22                        | 4.00   | +0.07                      | 1.90                  | 7.8                        | 12                          | 5      | 14                            | 12         | nw.         | S. K. Pearson, Jr.        |
| Lambertville.....                    | Hunterdon.....  | 370              | 35                       | 31.6                          | -2.0                       | 56       | 1     | 11      | 19    | 22                        | 3.24   | -0.63                      | 1.07                  | 6.5                        | 13                          | 12     | 6                             | 13         | nw.         | Wm. J. Lauderdale.        |
| Little Falls.....                    | Passaic.....    | 180              | §19                      | 30.6                          | -0.9                       | 55       | 1     | 8       | 30    | 38                        | 4.09   | 0.00                       | 1.14                  | 8.5                        | 12                          | 10     | 9                             | 12         | nw.         | Montclair Water Co.       |
| Newark.....                          | Essex.....      | 159              | 80                       | 32.2                          | -1.1                       | 57       | 1     | 12      | 30    | 20                        | 4.22   | +0.34                      | 1.31                  | 9.3                        | 14                          | 6      | 14                            | 11         | nw.         | Prof. William Wiener.     |
| New Brunswick.....                   | Middlesex.....  | 110              | 69                       | 33.0                          | -0.2                       | 58       | 2     | 3       | 30    | 31                        | 3.98   | +0.31                      | 1.05                  | §                          | 15                          | 13     | 9                             | 9          | .....       | N. J. Experiment Station. |
| New Milford††.....                   | Bergen.....     | 2                | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.53   | .....                      | 1.09                  | .....                      | 15                          | .....  | .....                         | .....      | .....       | Hackensack Water Co.      |
| Paterson.....                        | Passaic.....    | 80               | 51                       | 33.0                          | -0.1                       | 55       | 1     | 10      | 30    | 23                        | 4.08   | +0.02                      | 1.55                  | 14.0                       | 12                          | .....  | .....                         | .....      | nw.         | Marion T. Probert.        |
| Plainfield.....                      | Union.....      | 120              | 34                       | 31.0                          | -1.7                       | 55       | 1     | 1       | 30    | 32                        | 3.97   | -0.09                      | 1.20                  | 9.8                        | 13                          | 7      | 12                            | 12         | nw.         | E. D. Pearson.            |
| Ridgefield†.....                     | Bergen.....     | 70               | 7                        | 30.2                          | .....                      | 55       | 1     | 7       | 30    | 26                        | 3.33   | .....                      | 1.70                  | 11.2                       | 13                          | 7      | 10                            | 14         | n.          | George P. Kirsten.        |
| Somerville.....                      | Somerset.....   | 70               | 39                       | 32.0                          | -0.2                       | 56       | 1     | 2       | 30    | 32                        | 3.44   | -0.41                      | 1.01                  | .....                      | 10                          | 11     | 9                             | 11         | ne.         | H. B. TenEyck.            |
| South Orange.....                    | Essex.....      | 200              | 52                       | 31.4*                         | -0.7                       | 56*      | 2     | 11      | 30    | 26                        | 4.51   | +0.59                      | 1.94                  | 9.5                        | 12                          | .....  | .....                         | .....      | nw.         | Wm. H. Meeder.            |
| Woodcliff Lake††.....                | Bergen.....     | 2                | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | §      | .....                      | .....                 | .....                      | .....                       | .....  | .....                         | .....      | .....       | Hackensack Water Co.      |
| New York, N. Y.....                  | .....           | 365              | 52                       | 34.3                          | -0.1                       | 56       | 1     | 13      | 30    | 20                        | 3.29   | -0.16                      | 1.14                  | 6.0                        | 12                          | 5      | 10                            | 16         | nw.         | U. S. Weather Bureau.     |
| Means and extremes...                |                 |                  |                          | 31.8                          | -0.8                       | 58       | 2     | 1       | 30    | 38                        | 3.89   | -0.04                      | 1.94                  | 9.2                        | 12                          | 9      | 9                             | 13         | nw.         |                           |
| The Southern Interior.               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |                               |            |             |                           |
| Belle Plain.....                     | Cape May.....   | 30               | 28                       | 36.4 <sup>b</sup>             | +1.3                       | 60       | 1     | 6       | 20    | 41                        | 4.29   | +0.34                      | 2.46                  | 5.5                        | 12                          | 9      | 5                             | 17         | nw.         | Thomas J. Durell.         |
| Bridgeton.....                       | Cumberland..... | 30               | 41                       | 36.3                          | +0.1                       | 61       | 1     | 15      | 20    | 28                        | 3.50   | -0.32                      | 1.60                  | 1.5                        | 10                          | 8      | 4                             | 19         | e.          | Henry A. Jorden.          |
| Burlington.....                      | Burlington..... | 12               | §36                      | 33.9                          | +0.1                       | 58       | 1     | 10      | 30    | 27                        | 4.17   | -0.15                      | 0.98                  | 7.4                        | 13                          | 13     | 5                             | 13         | nw.         | D. S. B. McCoy.           |
| Camp Dix.....                        | Burlington..... | 127              | 4                        | 33.4                          | .....                      | 62       | 1     | 3       | 30    | 35                        | §      | .....                      | .....                 | .....                      | .....                       | .....  | .....                         | .....      | nw.         | U. S. Army.               |
| Hammonton.....                       | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | §      | .....                      | 1.46                  | 7.0                        | .....                       | 12     | 6                             | 13         | w.          | Charles M. Phillips.      |
| Hightstown.....                      | Mercer.....     | 120              | 30                       | 32.0                          | -0.6                       | 60       | 1     | 0       | 30    | 36                        | 3.83   | +0.14                      | 1.02                  | .....                      | 12                          | 16     | 4                             | 11         | nw.         | E. H. Savage, Jr.         |
| Imlaystown.....                      | Monmouth.....   | 115              | 34                       | 31.7*                         | -1.2                       | 57       | 1†    | 4       | 30    | 31                        | 3.47   | -0.20                      | 0.87                  | .....                      | 12                          | .....  | .....                         | .....      | w.          | Wm. R. Hendrickson.       |
| Indian Mills†.....                   | Burlington..... | 76               | 33                       | 34.0 <sup>a</sup>             | +0.2                       | 64       | 1     | 4       | 30    | 36                        | 4.38   | -0.02                      | 1.22                  | 8.0                        | 12                          | .....  | .....                         | .....      | .....       | James M. Armstrong.       |
| Lakewood.....                        | Ocean.....      | 54               | 18                       | 33.8                          | +0.3                       | 63       | 1     | 9       | 30    | 31                        | 4.07   | -0.57                      | 1.04                  | .....                      | 12                          | 6      | 8                             | 17         | sw.         | R. W. Holman.             |
| Lumberton.....                       | Burlington..... | .....            | .....                    | 33.2                          | .....                      | 62       | 1     | 11      | 20    | 34                        | 3.99   | -0.32                      | 1.08                  | .....                      | 12                          | 9      | 11                            | 11         | sw.         | Julius Bernstein.         |
| Moorestown.....                      | Burlington..... | 75               | 59                       | 34.4                          | +0.9                       | 59       | 1     | 14      | 30    | 28                        | 3.46   | -0.23                      | 0.90                  | 4.3                        | 16                          | 7      | 12                            | 12         | w.          | Stokes Seed Farms Co.     |
| Northfield†.....                     | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.39   | +0.27                      | 2.33                  | 3.6                        | 10                          | .....  | .....                         | .....      | .....       | William L. Flick.         |
| Pleasantville†.....                  | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.26   | +1.02                      | 2.26                  | .....                      | 11                          | 11     | 8                             | 12         | .....       | Lincoln Van Gilder.       |
| Trenton.....                         | Mercer.....     | 190              | 50                       | 32.9                          | -1.5                       | 56       | 1     | 14      | 30    | 24                        | 3.46   | +0.30                      | 0.66                  | 7.5                        | 15                          | 3      | 10                            | 18         | ne.         | U. S. Weather Bureau.     |
| Tuckerton.....                       | Ocean.....      | 23               | 29                       | .....                         | .....                      | 65       | 1     | 11      | 20    | .....                     | 4.13   | -0.38                      | 1.85                  | 4.5                        | 11                          | 7      | 13                            | 11         | uc.         | Frank R. Austin.          |
| Vineland.....                        | Cumberland..... | 109              | 53                       | 36.8 <sup>b</sup>             | +2.3                       | 57       | 1     | 14      | 30    | 29                        | 4.01   | +0.19                      | 1.07                  | .....                      | 12                          | .....  | .....                         | .....      | ne.         | H. C. Himes.              |
| Philadelphia, Pa.....                | .....           | 117              | 52                       | 36.1                          | +0.4                       | 57       | 1     | 16      | 19    | 24                        | 3.29   | +0.25                      | 1.22                  | 2.8                        | 14                          | 4      | 7                             | 20         | ne.         | U. S. Weather Bureau.     |
| Means and extremes...                |                 |                  |                          | 34.1                          | +0.2                       | 65       | 1     | 0       | 30    | 41                        | 4.03   | +0.03                      | 2.46                  | 5.0                        | 12                          | 9      | 8                             | 14         | nw.         |                           |
| The Sea Coast.                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |                               |            |             |                           |
| Asbury Park.....                     | Monmouth.....   | 22               | 33                       | 36.6                          | +1.6                       | 62       | 1     | 15      | 30    | 23                        | 4.51   | +0.66                      | 0.84                  | 8.0                        | 12                          | 6      | 6                             | 19         | nw.         | Information Bureau.       |
| Atlantic City.....                   | Atlantic.....   | 16               | 48                       | 37.4                          | +1.0                       | 58       | 1     | 16      | 30    | 26                        | 4.79   | +1.05                      | 2.52                  | 5.0                        | 12                          | 4      | 5                             | 22         | nw.         | U. S. Weather Bureau.     |
| Cape May City.....                   | Cape May.....   | 17               | 38                       | 38.3                          | +0.3                       | 57       | 1     | 18      | 30    | 25                        | 4.13   | +0.35                      | 1.57                  | 0.8                        | 12                          | 5      | 9                             | 17         | nw.         | U. S. Weather Bureau.     |
| Long Branch.....                     | Monmouth.....   | 25               | 15                       | 32.7                          | -1.4                       | 60       | 1     | 14      | 19    | 26                        | 3.79   | -0.95                      | 1.64                  | 7.3                        | 15                          | 5      | 11                            | 15         | ne.         | William D. Martin, Jr.    |
| Sandy Hook.....                      | Monmouth.....   | 22               | 24                       | 34.4                          | 0.0                        | 54       | 1     | 18      | 19    | 19                        | 3.39   | -0.57                      | 1.02                  | 4.2                        | 14                          | 5      | 11                            | 15         | ne.         | U. S. Weather Bureau.     |
| Means and extremes...                |                 |                  |                          | 35.9                          | +0.2                       | 62       | 1     | 14      | 19    | 26                        | 4.12   | +0.11                      | 2.52                  | 5.1                        | 13                          | 5      | 8                             | 18         | nw.         |                           |
| For the State.....                   |                 |                  |                          | 32.5                          | -0.4                       | 65       | 1     | -8      | 30    | 41                        | 3.86   | -0.11                      | 2.52                  | 7.3                        | 12                          | 9      | 9                             | 13         | nw.         |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, \*, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



## Daily Precipitation for December, 1922.

| Stations.                                  | Drainage Basin. | Day of month. |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |    |     |     |     |     |     |    |      |      |      |     |      | Total. |      |
|--------------------------------------------|-----------------|---------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|----|-----|-----|-----|-----|-----|----|------|------|------|-----|------|--------|------|
|                                            |                 | 1             | 2 | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18   | 19 | 20 | 21  | 22  | 23  | 24  | 25  | 26 | 27   | 28   | 29   | 30  | 31   |        |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |    |     |     |     |     |     |    |      |      |      |     |      |        |      |
| Belvidere.....                             | Delaware.....   |               |   | .15 |     | .50 |     | .04 | .37 |     |     |     | .10 |     | .12 | .19 |     | .69 |      |    |    |     | .03 |     | .04 |     |    |      | .74  | .23  |     |      | 3.17   |      |
| Charlotteburg.....                         | Passaic.....    |               |   |     |     | .47 |     | *   | .63 |     |     | *   | .12 |     | *   | .45 |     | .50 |      |    |    |     | .03 |     | .02 |     |    |      | .70  | .54  |     |      | 3.46   |      |
| Culvers Lake.....                          | Delaware.....   | .02           |   |     |     | .40 |     | T.  | .45 | .15 |     |     | .05 |     | .17 | .13 |     | .70 | .02  |    |    | T.  |     | T.  | T.  |     |    |      | .71  | .50  |     | T.   | 3.30   |      |
| Dover.....                                 | Passaic.....    | .04           |   | .03 |     | .51 |     | *   | .39 |     |     | *   | .13 |     | *   | .40 |     | .45 |      |    |    |     |     |     |     |     |    |      | *    | 1.39 |     |      | 3.34   |      |
| Layton.....                                | Delaware.....   | .03           |   |     |     | .43 |     | *   | .62 |     |     |     | .06 |     | *   | .28 |     | .77 |      |    |    | T.  |     | T.  |     |     |    |      | *    | 1.12 |     |      | 3.31   |      |
| Newton.....                                | Delaware.....   | .01           |   | T.  |     | .33 |     | .07 | .37 |     |     |     | .16 |     | .38 | .05 |     | .65 |      |    |    |     | T.  |     |     |     |    |      | .72  | .35  |     |      | 3.09   |      |
| Phillipsburg.....                          | do.....         |               |   |     |     | .38 |     | T.  | §   |     |     | §   |     |     | .22 | .04 |     | .54 |      |    |    | .03 |     |     |     |     |    | .54  | .13  | .18  |     |      | §      |      |
| Sussex.....                                | Hudson.....     | .07           |   | T.  |     | .24 |     | .03 | .55 | .03 |     |     | .11 |     | .20 | .06 |     | .64 |      |    |    |     | T.  |     |     |     |    |      | *    | 1.21 |     | T.   | 3.14   |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |    |     |     |     |     |     |    |      |      |      |     |      |        |      |
| Bergen Point.....                          | Coast.....      | T.            |   | .02 |     | .45 |     | .20 | .10 |     | T.  | T.  | .10 |     | .39 | .17 |     | .62 |      |    |    | .03 |     | T.  |     |     | T. |      | §    | .78  |     |      | §      |      |
| Boonton   .....                            | Passaic.....    |               |   |     |     | .62 | .02 |     | .10 | .34 |     |     | .14 |     | .36 |     |     | .31 | .28  |    |    | .04 |     |     |     |     |    |      | .70  | .51  |     |      | 3.42   |      |
| Chatham   .....                            | do.....         |               |   | .02 |     | .63 | .04 |     | .41 | .04 |     |     | .35 |     | .55 |     |     | .33 | .56  |    |    | T.  | T.  | T.  |     |     |    |      | .81  | .96  |     |      | 4.70   |      |
| Elizabeth.....                             | Coast.....      | T.            |   | .02 |     | .46 |     | *   | .35 |     | T.  |     | .12 |     | *   | .59 |     | .61 |      |    |    | .05 |     | T.  |     |     |    |      | *    | 1.97 |     |      | 4.17   |      |
| Flemington.....                            | Raritan.....    | T.            |   | .07 |     | .40 |     | .05 | .19 | .14 | T.  |     | .07 |     | .25 | .31 |     | .52 |      |    |    | .15 |     | .02 |     |     |    |      | 1.09 | .30  |     |      | 3.56   |      |
| Highwood.....                              | Hackensack..... | T.            |   | .02 |     | .55 |     | .07 | .20 |     | T.  |     | .12 |     | .48 | T.  |     | .53 |      |    |    | T.  |     | T.  |     |     |    |      | 1.30 | .47  |     |      | 3.74   |      |
| Jersey City.....                           | Coast.....      | T.            |   | .01 | T.  | .35 |     | .25 | .11 |     | T.  | *   | .15 |     | *   | .58 |     | .59 |      |    | T. | .06 |     | T.  |     |     |    |      | *    | 1.90 |     |      | 4.00   |      |
| Lambertville.....                          | Delaware.....   | T.            |   | .04 |     | .46 |     | .18 | .15 |     | .02 |     | .06 |     | .24 | .17 |     | .65 |      |    |    | .03 |     | .02 |     |     |    |      | 1.07 | .15  |     |      | 3.24   |      |
| Little Falls   .....                       | Passaic.....    | T.            |   | .04 |     | .49 |     | .37 | .05 |     |     |     | .16 |     | .43 |     | .55 | .03 |      |    |    | .03 |     | T.  |     |     |    |      | .80  | 1.14 |     |      | 4.09   |      |
| Newark**.....                              | Coast.....      | .02           |   | .04 |     | .46 |     | .50 | .29 |     | .08 |     | .04 |     | .37 | .24 |     | .48 |      |    |    | .06 |     | .02 |     |     |    |      | 1.31 | .31  |     |      | 4.22   |      |
| New Brunswick.....                         | Raritan.....    | T.            |   | .07 | .01 | .39 |     | .25 | .29 | .03 | .01 |     | .09 |     | .25 | .20 |     | .60 |      |    |    | .04 |     | .01 |     |     |    |      | 1.05 | .69  |     |      | 3.98   |      |
| New Milford.....                           | Hackensack..... | .02           |   | .01 |     | .46 |     | .05 | .42 |     | .08 | .05 |     |     | *   | .47 |     | .36 |      |    |    | *   |     | .24 |     |     |    |      | 1.09 | .28  |     |      | 3.53   |      |
| Paterson.....                              | Passaic.....    | .02           |   | .02 | T.  | .40 |     | .10 | .32 |     |     | T.  | .10 |     | .30 | .05 |     | .50 |      |    |    | .03 |     | T.  |     |     |    |      | 1.55 | .69  |     |      | 4.08   |      |
| Plainfield.....                            | Raritan.....    | T.            |   | .02 |     | .47 |     | .23 | .10 |     | T.  | .05 | .09 |     | .37 | .20 |     | .61 |      |    |    | .05 |     | .03 |     |     |    |      | 1.20 | .55  |     |      | 3.97   |      |
| Ridgefield**.....                          | Hackensack..... | .02           |   | .04 |     | .45 |     | .05 | .28 | .14 | T.  |     | .15 |     | .30 | .22 |     | .52 |      |    | T. | .06 |     | T.  |     |     |    |      | .80  | .90  |     |      | 3.93   |      |
| Somerville.....                            | Raritan.....    |               |   | .04 |     | .42 |     | .04 | .26 |     |     |     | .10 |     | .30 | .22 |     | .66 |      |    |    |     |     |     |     |     |    |      | 1.01 | .39  |     |      | 3.44   |      |
| South Orange.....                          | Rahway.....     |               |   | .03 |     | .55 |     | .20 | .11 |     | .04 |     | .04 |     | .66 | .20 |     | .68 |      |    |    | T.  |     | .06 |     |     |    |      | §    | 1.94 |     |      | 4.51   |      |
| Woodcliff Lake.....                        | Hackensack..... |               |   | .39 |     | .50 |     | .47 |     |     |     | .07 |     |     | §   | §   |     | §   |      |    |    | .10 |     |     |     |     |    |      | §    | §    | §   | §    | §      |      |
| New York, N. Y***                          | Coast.....      | T.            |   | .01 |     | .36 |     | .22 | .10 |     | T.  | .03 | .10 |     | .37 | .14 |     | .55 |      |    |    | T.  | .06 |     | T.  |     |    |      | 1.06 | .29  |     |      | 3.29   |      |
| <i>The Southern Interior.</i>              |                 |               |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |    |     |     |     |     |     |    |      |      |      |     |      |        |      |
| Belle Plain.....                           | Tuckahoe.....   |               |   | .09 |     | .46 |     | .18 | .09 |     | .14 |     | .03 |     | .31 | .24 |     | .23 |      |    |    | .06 |     |     |     |     |    | 1.04 | 1.42 |      |     |      | 4.29   |      |
| Bridgeton.....                             | Coast.....      |               |   | .05 |     | .45 |     | .18 | .07 |     | .15 |     | T.  |     | .20 | .05 |     | .75 |      |    |    |     |     |     |     |     |    | .90  | .70  |      |     | 3.50 |        |      |
| Burlington.....                            | Delaware.....   | .10           |   | .10 |     | .54 |     | .20 | .25 | .01 | .05 | T.  | .06 |     | .27 | .15 |     | .78 | T.   |    |    | .20 |     | T.  |     |     |    |      | .98  | .58  |     |      | 4.17   |      |
| Camp Dix   .....                           | Delaware.....   |               |   | .09 | .48 | .01 |     | .44 | §   | .11 | T.  | .09 |     |     | .29 | .02 | .43 | .33 |      |    |    | .14 | T.  |     |     |     |    |      | §    | §    | §   | §    | §      |      |
| Hammonton.....                             | Mullica.....    |               |   | .13 | .04 | §   |     | .13 | .07 |     | .24 |     | §   |     | .27 | .07 |     | .80 |      |    |    | .26 |     |     |     |     |    |      | 1.46 | 1.05 |     |      | §      |      |
| Hightstown.....                            | Raritan.....    |               |   | .09 |     | .48 |     | .23 | .35 |     | .05 |     | .06 |     | .15 | .25 |     | .72 |      |    |    | .40 |     | .03 |     |     |    |      | 1.02 |      |     |      | 3.83   |      |
| Imlaystown.....                            | Delaware.....   |               |   | .08 |     | .48 |     | .10 | .31 |     | .07 |     | .08 |     | *   | .25 |     | .79 |      |    |    | .42 |     | .02 |     |     |    |      | .87  |      |     |      | 3.47   |      |
| Indian Mills.....                          | Mullica.....    | T.            |   | .11 |     | .51 |     | .10 | .20 |     | .16 |     | .09 |     | .12 | .17 |     | .78 |      |    |    | .18 |     |     |     |     |    |      | 1.22 | .74  |     |      | 4.38   |      |
| Lakewood.....                              | Metedeconk..... |               |   | .08 |     | .47 |     | .25 | .17 |     | .15 |     | .05 |     | .24 | .08 |     | .90 |      |    |    | .04 |     | T.  |     |     |    |      | 1.04 | .60  |     |      | 4.07   |      |
| Lumberton.....                             | Delaware.....   | .01           |   | .51 |     | .32 | .02 | .05 | .06 |     | .06 |     | .22 | .14 |     | .74 |     | .69 | .108 |    |    | .15 |     |     |     |     |    |      | .69  | 1.08 |     |      | 3.99   |      |
| Moorestown.....                            | Delaware.....   |               |   | .06 | .01 | .45 |     | .21 | .20 |     | .10 |     | .05 |     | .05 | .35 |     | .80 |      |    |    | .08 | .02 |     |     | .01 |    |      | .02  | .90  | .15 |      |        | 3.46 |
| Northfield.....                            | Coast.....      | T.            |   | .50 |     | .50 |     | .16 | .01 |     | .08 |     | .02 |     | .25 | .20 |     | .53 |      |    |    | .20 |     |     |     |     |    |      | 2.33 | .31  |     |      | 4.39   |      |
| Pleasantville.....                         | Coast.....      |               |   | .03 |     | .59 |     | .12 | .02 |     | .12 | T.  | .02 |     | .29 | .97 |     | .44 |      |    |    |     |     |     |     |     |    |      | 2.26 | .40  |     |      | 5.26   |      |
| Trenton***.....                            | Delaware.....   | T.            |   | .05 | .03 | .44 |     | .27 | .13 |     | .15 | T.  | .03 |     | .31 | .18 |     | .60 |      |    |    | .10 |     | .02 |     |     |    |      | .14  | .56  | .45 |      |        | 3.46 |
| <i>The Sea Coast.</i>                      |                 |               |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |    |     |     |     |     |     |    |      |      |      |     |      |        |      |
| Tuckerton.....                             | Coast.....      |               |   | .15 |     | .63 |     | .13 | .09 |     | .18 |     | .02 |     | .22 | .04 |     | .44 |      |    |    |     |     |     |     |     |    |      | 1.85 | .38  |     |      | 4.13   |      |
| Vineland.....                              | Maurice.....    |               |   | .02 |     | .48 |     | .12 | .09 |     | .22 | T.  | .03 |     | .18 | .16 |     | .77 |      |    |    | .25 |     |     |     |     |    |      | 1.07 | .62  |     |      | 4.01   |      |
| Philadelphia, Pa...                        | Delaware.....   | T.            |   | .07 | .07 | .38 |     | .24 | .09 |     | .07 | T.  | .01 |     | .15 | .14 |     | .69 |      |    |    | T.  | .08 |     | T.  |     |    |      | .15  | 1.12 | .03 |      | T.     | 3.29 |
| <i>The Sea Coast.</i>                      |                 |               |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |    |    |     |     |     |     |     |    |      |      |      |     |      |        |      |
| Asbury Park.....                           | Coast.....      |               |   | .10 |     | .52 |     | .34 | .46 |     | .04 | T.  | .05 |     | .24 | .36 |     | .81 |      |    |    | .08 |     | T.  |     |     |    |      | .67  | .84  |     |      | 4.51   |      |
| Atlantic City***.....                      | do.....         |               |   | .01 | .12 | .41 |     | .19 | T.  |     | .10 |     | .06 |     | .20 | .15 | T.  | .66 |      |    |    |     |     |     |     |     |    |      | .03  | 2.52 | .34 |      |        | 4.79 |
| Cape May City.....                         | do.....         |               |   | .07 |     | .01 |     | .33 | .06 |     | .05 | T.  | .01 |     | .38 | .31 |     | .71 |      |    |    | .03 |     |     |     |     |    |      | 1.56 | .01  |     |      | 4.13   |      |
| Long Branch**.....                         | do.....         |               |   | .04 | .01 | .45 |     | .35 | .15 |     | .07 | .01 |     | .30 | .13 |     | .31 |     |      |    |    | .07 |     | T.  |     |     |    |      | .04  | 1.64 | .21 |      |        | 3.79 |
| Sandy Hook***.....                         | do.....         | T.            |   | .06 |     | .38 |     | .32 | .08 |     | .01 | .01 |     | .03 |     | .31 | .27 |     | .58  |    |    | T.  | .14 |     | T.  |     |    |      | .03  | 1.02 | .15 |      |        | 3.39 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                    |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                    |
| Atlantic City.....    | 30.15         | 30.64    | 11    | 29.28   | 28    | 15               | 60              | ne.        | 28        | 81                                         | 77                                         | 29                                 |
| Cape May City.....    | 30.17         | 30.67    | 11    | 29.28   | 28    | 6                | 30              | nw.        | 12        | 84                                         | 71                                         | .....                              |
| Long Branch.....      | 30.12         | 30.58    | 11    | 29.38   | 28    | .....            | 56              | ne.        | 28        | 76                                         | 79                                         | 39                                 |
| Newark.....           | 30.15         | 30.68    | 11    | 29.43   | 28    | 15               | 63              | ne.        | 28        | 77*                                        | 68†                                        | 42                                 |
| New York, N. Y.....   | 30.16         | 30.68    | 11    | 29.38   | 28    | 9                | 36              | ne.        | 28        | 73                                         | 68                                         | 37                                 |
| Philadelphia, Pa..... | 30.15         | 30.70    | 11    | 29.45   | 28    | .....            | .....           | .....      | .....     | 75                                         | 67                                         | 37                                 |
| Ridgefield.....       | 30.14         | 30.68    | 11    | 29.40   | 28    | 15               | 50              | ne.        | 28        | 79                                         | 74                                         | 40                                 |
| Sandy Hook.....       | 30.15         | 30.66    | 11    | 29.37   | 28    | 10               | 42              | ue.        | 28        | 80                                         | 74                                         | 44                                 |
| Trenton.....          | 30.15         | 30.66    | 11    | 29.37   | 28    | 10               | 42              | ue.        | 28        | 80                                         | 74                                         | 44                                 |

§ Two directions and dates

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Daily Temperatures for December, 1922.

| Stations.                            | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27    | 28    | 29    | 30 | 31   | Mean. |      |      |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|-------|-------|-------|----|------|-------|------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |       |       |       |    |      |       |      |      |
| Belvidere.....                       | Maximum | 47 | 45 | 35 | 46 | 40 | 35 | 39 | 31 | 47 | 34 | 36 | 39 | 30 | 31 | 39 | 35  | 33 | 31 | 27 | 29 | 42 | 30 | 35 | 40 | 41 | 38    | 45    | 33    | 27 | 28   | 37    | 36.3 |      |
|                                      | Minimum | 37 | 33 | 30 | 20 | 25 | 19 | 25 | 29 | 25 | 12 | 30 | 16 | 20 | 26 | 18 | 26  | 21 | 10 | 8  | 24 | 18 | 29 | 22 | 23 | 23 | 28    | 25    | 24    | 18 | 6    | 14    | 22.1 |      |
| Charlotteburg.....                   | Maximum | 55 | 51 | 47 | 47 | 49 | 37 | 30 | 32 | 36 | 30 | 33 | 48 | 29 | 24 | 39 | 34  | 35 | 30 | 20 | 34 | 38 | 31 | 36 | 46 | 44 | 49    | 45    | 33    | 30 | 31   | 49    | 37.8 |      |
|                                      | Minimum | 30 | 31 | 16 | 23 | 31 | 23 | 16 | 23 | 29 | 24 | 3  | 28 | 14 | 16 | 22 | 11  | 25 | 20 | 6  | -1 | 29 | 12 | 18 | 21 | 23 | 21    | 30    | 17    | 4  | 20   | 19.8  |      |      |
| Dover.....                           | Maximum | 53 | 52 | 37 | 48 | 49 | 36 | 30 | 36 | 39 | 32 | 34 | 46 | 29 | 29 | 40 | 34  | 36 | 29 | 23 | 31 | 40 | 32 | 36 | 41 | 41 | 46    | 45    | 39    | 25 | 31   | 42    | 37.5 |      |
|                                      | Minimum | 39 | 23 | 20 | 26 | 35 | 20 | 18 | 28 | 27 | 14 | 10 | 24 | 16 | 20 | 25 | 17  | 22 | 14 | 7  | 7  | 21 | 18 | 29 | 22 | 25 | 30    | 26    | 22    | 15 | 9    | 12    | 20.7 |      |
| Layton.....                          | Maximum | 52 | 57 | 37 | 50 | 50 | 43 | 26 | 33 | 37 | 29 | 33 | 42 | 24 | 41 | 36 | 30  | 31 | 22 | 22 | 44 | 32 | 35 | 42 | 41 | 42 | 41    | 39    | 29    | 30 | 35   | 37.0  |      |      |
|                                      | Minimum | 29 | 26 | 18 | 20 | 32 | 24 | 15 | 24 | 29 | 25 | 7  | 30 | 15 | 23 | 3  | 22  | 16 | 5  | -2 | 21 | 10 | 27 | 23 | 20 | 25 | 23    | 23    | 15    | -6 | 7    | 18.2  |      |      |
| Newton.....                          | Maximum | 51 | 53 | 38 | 47 | 48 | 45 | 28 | 32 | 38 | 29 | 34 | 40 | 40 | 27 | 40 | 34  | 38 | 34 | 32 | 27 | 38 | 32 | 35 | 39 | 39 | 37    | 38    | 36    | 24 | 20   | 36    | 35.7 |      |
|                                      | Minimum | 38 | 30 | 22 | 30 | 33 | 21 | 17 | 24 | 28 | 18 | 12 | 30 | 15 | 16 | 24 | -15 | 28 | 12 | 8  | 6  | 20 | 19 | 28 | 22 | 26 | 30    | 25    | 23    | 15 | 2    | 11    | 20.9 |      |
| Phillipsburg.....                    | Maximum | 51 | 51 | 37 | 44 | 51 | 53 | 34 | 40 | 40 | 33 | 36 | 40 | 40 | 32 | 40 | 34  | 44 | 33 | 32 | 33 | 40 | 36 | 44 | 43 | 44 | 50    | 51    | 38    | 28 | 28   | 41    | 40.1 |      |
|                                      | Minimum | 33 | 25 | 23 | 22 | 22 | 24 | 20 | 31 | 31 | 21 | 20 | 29 | 18 | 22 | 39 | 21  | 29 | 20 | 13 | 12 | 26 | 21 | 30 | 26 | 27 | 28    | 29    | 27    | 19 | 11   | 20    | 23.6 |      |
| Sussex.....                          | Maximum | 56 | 52 | 43 | 49 | 49 | 44 | 38 | 33 | 36 | 36 | 35 | 38 | 40 | 34 | 42 | 34  | 33 | 32 | 25 | 25 | 39 | 34 | 37 | 43 | 41 | 40    | 40    | 40    | 33 | 37   | 38.5  |      |      |
|                                      | Minimum | 31 | 33 | 19 | 27 | 32 | 23 | 24 | 29 | 30 | 23 | 10 | 29 | 17 | 17 | 23 | 4   | 21 | 19 | 8  | -1 | 20 | 13 | 29 | 21 | 20 | ..... | ..... | ..... | 18 | -8   | 5     | 19.1 |      |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |       |       |       |    |      |       |      |      |
| Bergen Point.....                    | Maximum | 56 | 53 | 39 | 50 | 53 | 44 | 32 | 34 | 41 | 35 | 38 | 42 | 41 | 32 | 40 | 37  | 35 | 36 | 26 | 37 | 39 | 35 | 41 | 45 | 45 | 45    | 45    | 42    | 27 | 29   | 45    | 40.0 |      |
|                                      | Minimum | 41 | 36 | 29 | 29 | 40 | 27 | 23 | 29 | 33 | 25 | 20 | 35 | 21 | 22 | 30 | 25  | 30 | 26 | 15 | 17 | 32 | 32 | 37 | 32 | 32 | 37    | 29    | 25    | 18 | 14   | 21    | 27.4 |      |
| Boonton§§.....                       | Maximum | 56 | 45 | 39 | 49 | 50 | 34 | 31 | 42 | 42 | 33 | 36 | 48 | 29 | 35 | 42 | 35  | 34 | 32 | 23 | 33 | 43 | 35 | 37 | 45 | 44 | 43    | 46    | 36    | 25 | 33   | 47    | 38.8 |      |
|                                      | Minimum | 32 | 34 | 13 | 18 | 28 | 26 | 16 | 17 | 27 | 15 | 8  | 11 | 17 | 12 | 20 | 15  | 15 | 9  | 4  | 9  | 17 | 20 | 19 | 19 | 23 | 23    | 24    | 19    | 5  | 7    | 17.3  |      |      |
| Elizabeth.....                       | Maximum | 56 | 55 | 40 | 50 | 52 | 49 | 34 | 33 | 42 | 35 | 38 | 41 | 40 | 30 | 39 | 40  | 34 | 36 | 30 | 33 | 40 | 37 | 39 | 43 | 46 | 43    | 45    | 41    | 28 | 29   | 44    | 40.1 |      |
|                                      | Minimum | 38 | 36 | 25 | 26 | 40 | 28 | 20 | 29 | 32 | 29 | 16 | 34 | 19 | 19 | 30 | 31  | 30 | 25 | 13 | 14 | 30 | 25 | 30 | 25 | 29 | 33    | 28    | 28    | 20 | 7    | 17    | 25.7 |      |
| Flemington.....                      | Maximum | 57 | 55 | 40 | 50 | 54 | 48 | 32 | 33 | 44 | 39 | 37 | 44 | 41 | 27 | 39 | 39  | 31 | 33 | 35 | 27 | 32 | 42 | 40 | 37 | 42 | 45    | 45    | 43    | 41 | 32   | 36    | 40   | 40.3 |
|                                      | Minimum | 34 | 35 | 21 | 20 | 36 | 26 | 18 | 30 | 32 | 29 | 14 | 31 | 17 | 19 | 32 | 23  | 28 | 25 | 11 | 14 | 31 | 24 | 33 | 25 | 25 | 30    | 25    | 30    | 20 | 13   | 16    | 24.7 |      |
| Highwood.....                        | Maximum | 54 | 49 | 40 | 47 | 49 | 42 | 33 | 33 | 37 | 32 | 35 | 38 | 30 | 40 | 36 | 36  | 32 | 28 | 33 | 38 | 32 | 39 | 41 | 44 | 42 | 45    | 43    | 42    | 32 | 36   | 40    | 40.3 |      |
|                                      | Minimum | 35 | 29 | 22 | 25 | 36 | 24 | 20 | 26 | 30 | 29 | 12 | 32 | 19 | 20 | 30 | 20  | 31 | 20 | 13 | 11 | 26 | 22 | 32 | 25 | 28 | 32    | 26    | 25    | 19 | 7    | 14    | 28.9 |      |
| Jersey City.....                     | Maximum | 56 | 53 | 43 | 48 | 51 | 37 | 39 | 37 | 42 | 33 | 42 | 43 | 31 | 37 | 41 | 36  | 37 | 36 | 25 | 39 | 40 | 37 | 39 | 42 | 46 | 41    | 47    | 40    | 30 | 30   | 45    | 40.2 |      |
|                                      | Minimum | 41 | 35 | 34 | 31 | 37 | 26 | 23 | 30 | 30 | 28 | 26 | 21 | 21 | 30 | 27 | 31  | 25 | 15 | 20 | 33 | 30 | 33 | 34 | 36 | 37 | 38    | 30    | 19    | 12 | 25   | 38.1  |      |      |
| Lambertville.....                    | Maximum | 56 | 52 | 38 | 45 | 51 | 43 | 32 | 33 | 41 | 35 | 37 | 41 | 39 | 28 | 39 | 33  | 34 | 33 | 25 | 33 | 38 | 33 | 36 | 41 | 44 | 45    | 42    | 41    | 25 | 26   | 40    | 38.1 |      |
|                                      | Minimum | 37 | 35 | 26 | 29 | 38 | 27 | 17 | 31 | 32 | 26 | 16 | 33 | 17 | 18 | 27 | 18  | 27 | 23 | 26 | 25 | 11 | 13 | 29 | 24 | 30 | 25    | 30    | 24    | 28 | 24   | 12    | 25.1 |      |
| Little Falls§§.....                  | Maximum | 55 | 47 | 38 | 51 | 52 | 35 | 31 | 39 | 41 | 34 | 38 | 45 | 29 | 35 | 42 | 38  | 33 | 33 | 26 | 34 | 43 | 35 | 39 | 47 | 44 | 47    | 46    | 35    | 23 | 37   | 50    | 39.4 |      |
|                                      | Minimum | 30 | 36 | 21 | 19 | 31 | 28 | 19 | 22 | 29 | 28 | 12 | 19 | 18 | 20 | 22 | 18  | 23 | 22 | 12 | 9  | 15 | 19 | 23 | 23 | 26 | 29    | 25    | 34    | 28 | 8    | 12    | 21.7 |      |
| Newark.....                          | Maximum | 57 | 54 | 40 | 47 | 48 | 36 | 34 | 37 | 42 | 32 | 33 | 39 | 27 | 33 | 42 | 36  | 34 | 33 | 20 | 34 | 39 | 34 | 38 | 43 | 44 | 45    | 44    | 38    | 25 | 28   | 43    | 38.0 |      |
|                                      | Minimum | 42 | 34 | 31 | 31 | 36 | 24 | 29 | 31 | 22 | 19 | 23 | 20 | 23 | 29 | 28 | 30  | 20 | 14 | 14 | 29 | 27 | 32 | 31 | 34 | 36 | 34    | 21    | 15    | 12 | 21   | 26.3  |      |      |
| New Brunswick.....                   | Maximum | 57 | 58 | 42 | 50 | 53 | 50 | 41 | 40 | 44 | 40 | 38 | 42 | 40 | 30 | 40 | 40  | 35 | 35 | 28 | 34 | 41 | 37 | 38 | 43 | 46 | 44    | 42    | 42    | 40 | 29   | 46    | 41.1 |      |
|                                      | Minimum | 36 | 36 | 24 | 22 | 39 | 28 | 19 | 31 | 32 | 26 | 16 | 33 | 18 | 18 | 28 | 21  | 29 | 26 | 14 | 12 | 28 | 25 | 31 | 22 | 29 | 35    | 27    | 26    | 22 | 3    | 16    | 24.9 |      |
| Paterson.....                        | Maximum | 55 | 54 | 38 | 51 | 50 | 45 | 31 | 32 | 42 | 35 | 37 | 45 | 41 | 29 | 41 | 40  | 34 | 35 | 25 | 34 | 40 | 35 | 40 | 44 | 46 | 47    | 41    | 28    | 32 | 37   | 39.6  |      |      |
|                                      | Minimum | 35 | 36 | 27 | 28 | 39 | 28 | 22 | 28 | 32 | 27 | 17 | 34 | 20 | 21 | 29 | 29  | 25 | 14 | 14 | 31 | 25 | 32 | 27 | 30 | 31 | 30    | 28    | 19    | 10 | 18   | 26.3  |      |      |
| Plainfield.....                      | Maximum | 55 | 54 | 40 | 46 | 50 | 39 | 32 | 33 | 41 | 33 | 38 | 41 | 30 | 31 | 40 | 37  | 34 | 36 | 24 | 32 | 40 | 35 | 40 | 43 | 47 | 44    | 44    | 30    | 38 | 19   | 10    | 18   | 26.3 |
|                                      | Minimum | 38 | 30 | 20 | 21 | 29 | 26 | 18 | 29 | 27 | 29 | 13 | 34 | 18 | 19 | 30 | 16  | 27 | 22 | 13 | 10 | 32 | 22 | 32 | 22 | 24 | 32    | 26    | 28    | 20 | 3    | 11    | 23.2 |      |
| Ridgefield.....                      | Maximum | 55 | 52 | 38 | 47 | 50 | 38 | 32 | 32 | 36 | 31 | 36 | 40 | 28 | 30 | 40 | 33  | 32 | 34 | 22 | 35 | 38 | 34 | 39 | 41 | 43 | 42    | 44    | 40    | 40 | 27   | 41    | 37.2 |      |
|                                      | Minimum | 39 | 26 | 25 | 25 | 37 | 22 | 20 | 27 | 29 | 17 | 15 | 25 | 20 | 25 | 22 | 28  | 17 | 13 | 11 | 26 | 24 | 31 | 25 | 28 | 32 | 27    | 21    | 18    | 7  | 15   | 23.1  |      |      |
| Somerville.....                      | Maximum | 56 | 53 | 37 | 50 | 53 | 48 | 35 | 44 | 37 | 39 | 42 | 41 | 31 | 41 | 40 | 34  | 35 | 28 | 33 | 43 | 35 | 38 | 42 | 48 | 44 | 44    | 44    | 42    | 31 | 34   | 43    | 40.7 |      |
|                                      | Minimum | 30 | 32 | 20 | 21 | 37 | 27 | 16 | 31 | 31 | 29 | 13 | 32 | 18 | 15 | 31 | 18  | 28 | 19 | 13 | 11 | 26 | 21 | 32 | 23 | 26 | 31    | 24    | 30    | 22 | 2    | 13    | 23.3 |      |
| South Orange.....                    | Maximum | 56 | 54 | 43 | 48 | 52 | 38 | 39 | 38 | 43 | 33 | 43 | 44 | 30 | 37 | 43 | 36  | 38 | 36 | 24 | 39 | 40 | 37 | 39 | 44 | 47 | 45    | 47    | 40    | 24 | 31   | 46    | 40.5 |      |
|                                      | Minimum | 42 | 35 | 34 | 31 | 38 | 24 | 23 | 30 | 31 | 25 | 23 | 27 | 20 | 22 | 31 | 27  | 31 | 20 | 14 | 21 | 34 | 30 | 33 | 34 | 37 | 38    | 39    | 36    | 16 | 13   | 26    | 28.1 |      |
| The Southern Interior.               |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |       |       |       |    |      |       |      |      |
| Beile Plain.....                     | Maximum | 60 | 56 | 44 | 48 | 56 | 45 | 44 | 49 | 51 | 38 | 43 | 46 | 44 | 36 | 50 | 42  | 48 | 47 | 46 | 40 | 45 | 46 | 46 | 59 | 54 | 48    | 48    | 41    | 57 | 47.5 |       |      |      |
|                                      | Minimum | 29 | 30 | 24 | 24 | 40 | 31 | 13 | 38 | 32 | 27 | 11 | 37 | 18 | 11 | 24 | 25  | 34 | 25 | 16 | 34 | 22 | 29 | 22 | 30 | 36 | 27    | 41    | 23    | 12 | 16   | 25.4  |      |      |
| Bridgeton.....                       | Maximum | 61 | 55 | 42 | 48 | 57 | 45 | 47 | 48 | 50 | 41 | 45 | 43 | 42 | 35 | 43 | 40  | 43 | 42 | 30 | 40 | 35 | 37 | 42 | 45 | 49 | 42    | 46    | 45    | 35 | 38   | 48    | 43.9 |      |
|                                      | Minimum | 34 | 37 | 32 | 28 | 42 | 32 | 20 | 35 | 40 | 27 | 17 | 35 | 21 | 20 | 33 | 27  | 33 | 28 | 16 | 15 | 32 | 27 | 29 | 26 | 32 | 37    | 30    | 26    | 18 | 23   | 28.7  |      |      |
| Burlington.....                      | Maximum | 58 | 54 | 42 | 49 | 52 | 49 | 30 | 37 | 46 | 40 | 43 | 42 | 43 | 34 | 40 | 39  | 37 | 38 | 27 | 39 | 40 | 35 | 40 | 44 | 48 | 43    | 44    | 42    | 33 | 30   | 45    | 41.4 |      |
|                                      | Minimum | 33 | 37 | 28 | 26 | 40 | 30 | 18 | 30 | 35 | 26 | 17 | 34 | 18 | 20 | 30 | 25  | 30 | 25 | 14 | 15 | 30 | 25 | 30 | 35 | 30 | 31    | 22    | 10    | 18 | 26.4 |       |      |      |
| Camp Dix.....                        | Maximum | 62 | 58 | 45 | 47 | 53 | 50 | 36 | 40 | 46 | 41 | 42 | 42 | 41 | 32 | 40 | 38  | 40 |    |    |    |    |    |    |    |    |       |       |       |    |      |       |      |      |

<sup>a, b, c, etc.</sup>, indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION,

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXVII.

ANNUAL SUMMARY, 1922.

No. 13.

### GENERAL SUMMARY.

A few salient features of the weather of 1922 should be mentioned, which are not usually remembered accurately, unless supported by unquestioned records. In New Jersey it was a slightly warmer year than normal; from February to June, inclusive, it was warmer than normal, and in October also; but slightly subnormal during the other periods. It was rainier than normal in June and July, and in many portions of the State in May. In the western part of the State, however, there was some drought in July which was not entirely overcome by August's rains, before the serious drought of the last 4 months of the year set in.

The warmth and moisture of June and July developed bacteriological plant enemies to a considerable extent.

The average of the State precipitation for the period from 1903 to date shows one or two significant features; the quantity has been notably deficient. During this period there have been 11 years of subnormal precipitation, 4 years above normal, and 4 years normal. This would seem to indicate that resulting stream flow and level of lake waters might be somewhat lower than normal, and perhaps gradually decreasing. It would also seem probable that the water table might be somewhat below normal. There have never been more than 3 abnormally dry or wet consecutive years, and as we have had two dry years, it would seem that there might be an increase of moisture this year.

The mean temperature for the year, 52.6°, was 1.1° above the normal. The warmest month was July, 73.0°, and the coldest, January, 27.6°. The highest temperature was 98° at Sussex on July 12th, and the lowest, 11° below zero at Charlotteburg on January 17th. The highest mean temperature was 55.9° at Bridgeton, and the lowest, 48.4° at Charlotteburg. The greatest annual range of temperature was 106° at Sussex.

The average precipitation for the State, for the year, was 41.57 inches, which was 5.25 inches below the normal. The greatest monthly average was 6.31 inches in June, and the least 0.91 inch in November. The greatest monthly precipitation was 11.50 inches at Newark in June, and the least, 0.49 inch at Phillipsburg in November. The greatest annual precipitation was 51.80 inches at Newark, and the least, 32.34 inches at Trenton.

The average snowfall for the State was 31.7 inches, which was 1.9 inches below the normal. The greatest annual snowfall was 61.0 inches at Culvers Lake, and the least, 15.7 inches at Sandy Hook.

The average number of days on which 0.01 inch or more of precipitation occurred was 119, which was 5 more than the normal. The average number of clear days was 169, which was 28 more than the normal; partly cloudy, 90, which was 26 less than the normal; cloudy, 106, which was 2 less than the normal.

The prevailing wind direction was from the northwest; the highest velocity was 78 miles per hour from the northeast at Long Branch on January 11th.

Unimportant occurrences of hail were on April 12th, 15th, 20th, and 23d, May 19th and 28th, June 6th, 11th, and 21st,

and August 1st, 3d, 5th, 7th, and 31st. Minor damage from hail occurred at several stations on July 28th. Considerable damage from hail occurred at Ridgefield on July 13th, and at Chatham on July 28th.

### COMPARATIVE ANNUAL DATA FOR THE STATE.

| Year.    | Temperature. |           |          | Average precipitation. | Year.    | Temperature. |           |          | Average precipitation. |
|----------|--------------|-----------|----------|------------------------|----------|--------------|-----------|----------|------------------------|
|          | Mean.        | High-est. | Low-est. |                        |          | Mean.        | High-est. | Low-est. |                        |
| 1885.... | 50.5         | 100       | -2       | 37.87                  | 1904.... | 49.3         | 100       | -34      | 43.78                  |
| 1886.... | 50.2         | 98        | -10      | 46.54                  | 1905.... | 51.3         | 102       | -18      | 42.06                  |
| 1887.... | 51.1         | 102       | -6       | 47.66                  | 1906.... | 52.8         | 98        | -15      | 46.38                  |
| 1888.... | 50.0         | 99        | -12      | 52.20                  | 1907.... | 50.4         | 96        | -22      | 51.65                  |
| 1889.... | 52.8         | 95        | -3       | 63.33                  | 1908.... | 52.6         | 106       | -17      | 42.58                  |
| 1890.... | 53.2         | 101       | 0        | 49.34                  | 1909.... | 52.0         | 100       | -15      | 40.86                  |
| 1891.... | 53.2         | 102       | 1        | 47.98                  | 1910.... | 52.0         | 99        | -15      | 39.73                  |
| 1892.... | 51.4         | 105       | -6       | 42.04                  | 1911.... | 52.6         | 104       | -12      | 50.36                  |
| 1893.... | 50.8         | 103       | -21      | 47.90                  | 1912.... | 51.3         | 100       | -32      | 46.61                  |
| 1894.... | 53.0         | 106       | -11      | 47.37                  | 1913.... | 54.2         | 100       | -11      | 46.99                  |
| 1895.... | 51.7         | 109       | -12      | 37.29                  | 1914.... | 51.4         | 99        | -12      | 39.23                  |
| 1896.... | 51.7         | 105       | -15      | 42.51                  | 1915.... | 52.5         | 98        | -3       | 47.37                  |
| 1897.... | 52.0         | 102       | -6       | 51.72                  | 1916.... | 51.2         | 100       | -18      | 38.17                  |
| 1898.... | 53.2         | 107       | -15      | 52.35                  | 1917.... | 49.6         | 104       | -21      | 40.80                  |
| 1899.... | 52.1         | 103       | -21      | 45.84                  | 1918.... | 51.2         | 108       | -16      | 37.65                  |
| 1900.... | 53.8         | 104       | -9       | 42.71                  | 1919.... | 52.5         | 103       | -12      | 52.10                  |
| 1901.... | 51.4         | 107       | -8       | 51.80                  | 1920.... | 51.2         | 98        | -17      | 51.87                  |
| 1902.... | 51.8         | 100       | -11      | 59.44                  | 1921.... | 54.1         | 100       | -5       | 38.16                  |
| 1903.... | 51.7         | 100       | -16      | 56.25                  | 1922.... | 52.6         | 97        | -11      | 41.57                  |

### MONTHLY STATE DATA FOR 1922.

| Month.         | Temperature. |                         |          |         | Precipitation. |                         |           |        |
|----------------|--------------|-------------------------|----------|---------|----------------|-------------------------|-----------|--------|
|                | Mean         | Depart-ure from normal. | Highest. | Lowest. | Average.       | Depart-ure from normal. | Greatest. | Least. |
| January.....   | 27.6         | -2.3                    | 57       | -11     | 2.62           | -0.99                   | 4.13      | 1.08   |
| February.....  | 33.6         | +4.0                    | 73       | -10     | 2.94           | -0.63                   | 4.60      | 1.80   |
| March.....     | 41.1         | +2.6                    | 82       | 2       | 4.52           | +0.64                   | 7.10      | 3.42   |
| April.....     | 51.0         | +1.5                    | 89       | 18      | 2.55           | -1.08                   | 4.12      | 1.57   |
| May.....       | 63.0         | +2.6                    | 90       | 23      | 3.84           | +0.04                   | 7.55      | 1.16   |
| June.....      | 71.1         | +2.5                    | 95       | 39      | 6.31           | +2.52                   | 11.50     | 2.97   |
| July.....      | 73.0         | -0.7                    | 98       | 44      | 5.79           | +1.00                   | 9.26      | 2.29   |
| August.....    | 71.2         | -0.9                    | 96       | 39      | 4.03           | -0.65                   | 6.78      | 2.18   |
| September..... | 66.7         | +1.1                    | 95       | 27      | 2.26           | -1.45                   | 5.22      | 0.59   |
| October.....   | 56.6         | +1.6                    | 92       | 18      | 1.48           | -2.25                   | 2.70      | 0.55   |
| November.....  | 44.3         | +1.3                    | 73       | 13      | 0.91           | -2.29                   | 1.56      | 0.49   |
| December.....  | 32.5         | -0.4                    | 65       | -5      | 3.86           | -0.11                   | 5.26      | 3.09   |
| Year.....      | *52.6        | +1.1                    | 98       | -11     | **41.57        | -5.25                   | 11.50     | 0.49   |

\* Mean of 32 stations.

\*\* Mean of the sums of 32 stations.

### KILLING FROSTS.

| Stations.                                   | Last in spring. | First in autumn. | Stations.                     | Last in spring. | First in autumn. |
|---------------------------------------------|-----------------|------------------|-------------------------------|-----------------|------------------|
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  | Somerville.....               | .....           | Oct. 20          |
| Belvidere.....                              | May 1           | Oct. 21          | South Orange.....             | Apr. 23         | do. 21           |
| Charlotteburg.....                          | do. 1           | Sept. 26         | <i>The Southern Interior.</i> |                 |                  |
| Culvers Lake.....                           | Apr. 30         | do. 26           | Belle Plain.....              | Apr. 24         | do. 19           |
| Dover.....                                  | May 1           | do. 26           | Bridgeton.....                | do. 24          | do. 19           |
| Layton.....                                 | do. 1           | do. 26           | Burlington.....               | do. 29          | do. 21           |
| Newton.....                                 | Apr. 29         | Oct. 19          | Camp Dix.....                 | do. 29          | do. 19           |
| Phillipsburg.....                           | do. 24          | do. 14           | Hammonton.....                | do. 30          | do. 19           |
| Sussex.....                                 | do. 25          | Sept. 26         | Highstown.....                | do. 29          | do. 19           |
| <i>The Red Sandstone Plain.</i>             |                 |                  | Imlaystown.....               | do. 29          | do. 19           |
| Bergen Point.....                           | Apr. 22         | Nov. 25          | Indian Mills.....             | do. 23          | do. 19           |
| Boonton.....                                | May 1           | Sept. 26         | Lakewood.....                 | do. 23          | do. 19           |
| Elizabeth.....                              | Apr. 25         | Oct. 19          | Moorestown.....               | do. 23          | do. 20           |
| Flemington.....                             | do. 23          | do. 19           | Trenton.....                  | Mar. 23         | do. 21           |
| Highwood.....                               | do. 23          | do. 19           | Tuckerton.....                | May 1           | do. 19           |
| Jersey City.....                            | do. 22          | do. 21           | Vineland.....                 | Apr. 24         | do. 21           |
| Kearny.....                                 | do. 28          | .....            | <i>The Sea Coast.</i>         |                 |                  |
| Lambertville.....                           | do. 24          | Oct. 19          | Asbury Park.....              | Apr. 6          | Oct. 30          |
| Little Falls.....                           | do. 23          | do. 19           | Atlantic City.....            | do. 3           | do. 22           |
| Newark.....                                 | do. 23          | do. 21           | Cape May City.....            | Mar. 23         | do. 22           |
| New Brunswick.....                          | do. 23          | do. 21           | Long Branch.....              | Apr. 23         | do. 21           |
| Paterson.....                               | do. 23          | do. 18           | Sandy Hook.....               | Mar. 23         | Nov. 25          |
| Plainfield.....                             | May 1           | do. 14           |                               |                 |                  |
| Ridgefield.....                             | do. 1           | do. 21           |                               |                 |                  |



## Climatological Data for the Year 1922.

| STATION.                                    | Counties.       | Elevation, feet. | Temperature (degrees Fahrenheit). |              |          |          |         |          | Precipitation (inches).  |                     |                   |        |                |        | Number days with .01 or more. | Sky.                       |                    |                            | Prevailing direction of wind. |                     |
|---------------------------------------------|-----------------|------------------|-----------------------------------|--------------|----------|----------|---------|----------|--------------------------|---------------------|-------------------|--------|----------------|--------|-------------------------------|----------------------------|--------------------|----------------------------|-------------------------------|---------------------|
|                                             |                 |                  | Length of record, years.          | Annual mean. | Highest. | Date.    | Lowest. | Date.    | Length of record, years. | Total for the year. | Greatest monthly. | Month. | Least monthly. | Month. |                               | Total snowfall (unmelted). | Number clear days. | Number partly cloudy days. |                               | Number cloudy days. |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                               |                            |                    |                            |                               |                     |
| Belvidere.....                              | Warren.....     | 289              | 31                                | 51.4         | 93       | July 12† | -4      | Feb. 17  | 31                       | 40.04               | 5.94              | July   | 0.80           | Nov    | 30.0                          | 99                         | 224                | 50                         | 91                            | .....               |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                                | 48.4         | 93       | Aug. 17  | -11     | Jan. 17  | 30                       | 47.99               | 7.20              | June   | 0.91           | do.    | 36.0                          | 106                        | 171                | 87                         | 107                           | w.                  |
| Culvers Lake.....                           | Sussex.....     | 848              | 38                                | 50.3         | 93       | July 12  | -10     | Feb. 17  | 21                       | 40.35               | 6.83              | do.    | 0.85           | do.    | 61.0                          | 132                        | 184                | 82                         | 99                            | n.                  |
| Dover.....                                  | Morris.....     | 600              | 38                                | 50.3         | 93       | July 12  | -5      | do. 17   | 38                       | 45.58               | 7.54              | do.    | 0.96           | do.    | 34.4                          | 116                        | .....              | .....                      | .....                         | .....               |
| Layton.....                                 | Sussex.....     | 480              | 21                                | 49.2         | 94       | Sept. 6  | -10     | do. 17   | 21                       | 44.52               | 8.99              | do.    | 1.16           | do.    | 45.2                          | 123                        | .....              | .....                      | .....                         | sw.                 |
| Newton.....                                 | Sussex.....     | 769              | 39                                | 50.0         | 91       | July 12† | -8      | do. 17   | 36                       | .....               | 5.54              | do.    | 0.91           | do.    | 48.3                          | .....                      | 169                | 70                         | 126                           | sw.                 |
| Phillipsburg.....                           | Warren.....     | 363              | 31                                | .....        | 98       | July 12  | 0       | do. 17   | 39                       | .....               | .....             | do.    | 0.49           | do.    | .....                         | .....                      | 222                | 62                         | 81                            | .....               |
| Sussex.....                                 | Sussex.....     | 442              | 25                                | .....        | 98       | July 12  | -8      | Dec. 30  | 28                       | .....               | 6.75              | June   | 0.98           | do.    | .....                         | .....                      | .....              | .....                      | .....                         | .....               |
| Means and extremes.....                     |                 | .....            | .....                             | 49.9         | 98       | July 12  | -11     | Jan. 17  | .....                    | 43.70               | 8.99              | June   | 0.49           | Nov    | 42.5                          | 115                        | 194                | 70                         | 101                           | sw.                 |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                               |                            |                    |                            |                               |                     |
| Bergen Point.....                           | Hudson.....     | 37               | 25                                | 53.2         | 96       | Aug. 17  | -1      | Feb. 17  | 25                       | .....               | .....             | .....  | 1.18           | Nov    | 28.5                          | 108                        | .....              | .....                      | .....                         | nw.                 |
| Boonton.....                                | Morris.....     | 400              | 14                                | 49.6         | 95       | do. 14   | -5      | Jan. 17  | 32                       | 43.95               | 6.48              | July   | 0.88           | do.    | .....                         | 104                        | 266                | 21                         | 118                           | nw.                 |
| Chatham.....                                | Morris.....     | 185              | 42                                | 53.6         | 96       | Aug. 17  | -2      | Feb. 17  | 18                       | .....               | 8.93              | do.    | 1.10           | do.    | .....                         | .....                      | .....              | .....                      | .....                         | .....               |
| Elizabeth.....                              | Union.....      | 45               | 42                                | 53.6         | 96       | Aug. 17  | -2      | Feb. 17  | 43                       | 46.25               | 9.04              | do.    | 1.03           | do.    | 28.8                          | 121                        | 151                | 127                        | 87                            | sw.                 |
| Flemington.....                             | Hunterdon.....  | 140              | 25                                | 53.3         | 95       | July 12  | -3      | do. 17   | 36                       | 38.05               | 5.83              | June   | 0.52           | do.    | 27.2                          | 119                        | 203                | 69                         | 93                            | w.                  |
| Highwood.....                               | Bergen.....     | 90               | 32                                | 51.1         | 91       | Aug. 17  | -2      | do. 17   | 34                       | 47.64               | 8.87              | do.    | 1.56           | do.    | .....                         | 113                        | 141                | 116                        | 108                           | nw.                 |
| Jersey City.....                            | Hudson.....     | 10               | 24                                | 54.2         | 95       | do. 17   | -1      | do. 17   | 24                       | 46.76               | 8.09              | do.    | 1.20           | do.    | 31.6                          | 118                        | .....              | .....                      | .....                         | nw.                 |
| Kearny.....                                 | Hudson.....     | 100              | 3                                 | .....        | .....    | .....    | -2      | do. 17   | 3                        | .....               | 8.15              | do.    | .....          | .....  | .....                         | .....                      | .....              | .....                      | .....                         | .....               |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                                | 52.0         | 94       | July 12  | -3      | do. 17   | 35                       | 34.65               | 7.04              | do.    | 0.74           | Nov    | 25.7                          | 130                        | 184                | 83                         | 98                            | w.                  |
| Little Falls.....                           | Passaic.....    | 180              | 8                                 | .....        | 96       | do. 12   | -4      | do. 17   | 19                       | 48.12               | 7.59              | do.    | 1.26           | do.    | 28.2                          | 115                        | 159                | 103                        | 103                           | nw.                 |
| Newark.....                                 | Essex.....      | 159              | 80                                | 53.1         | 95       | Aug. 17  | -1      | do. 17   | 80                       | 51.80               | 11.50             | do.    | 0.97           | do.    | 34.3                          | 129                        | 159                | 121                        | 85                            | sw.                 |
| New Brunswick.....                          | Middlesex.....  | 110              | 65                                | 52.8         | 96       | July 13  | -2      | do. 17   | 69                       | 42.52               | 7.59              | do.    | 0.77           | do.    | .....                         | 120                        | .....              | .....                      | .....                         | n.                  |
| New Milford.....                            | Bergen.....     | .....            | 4                                 | .....        | 95       | July 12  | -2      | .....    | 4                        | .....               | .....             | .....  | 1.18           | .....  | .....                         | 113                        | .....              | .....                      | .....                         | .....               |
| Paterson.....                               | Passaic.....    | 80               | 47                                | 53.9         | 95       | July 12  | -2      | Feb. 17  | 51                       | 42.24               | 5.85              | Mar.   | 1.18           | Nov    | 41.5                          | 118                        | .....              | .....                      | .....                         | nw.                 |
| Plainfield.....                             | Somerset.....   | 110              | 31                                | 51.4         | 93       | do. 12   | -4      | do. 17   | 34                       | 46.00               | 9.26              | July   | 0.84           | do.    | 29.6                          | 125                        | 149                | 126                        | 90                            | nw.                 |
| Ridgefield.....                             | Bergen.....     | 70               | 7                                 | 51.4         | 93       | Aug. 17  | -5      | do. 17   | 7                        | 46.10               | 9.05              | June   | 1.32           | do.    | 37.8                          | 128                        | 150                | 108                        | 107                           | nw.                 |
| Somerville.....                             | Somerset.....   | 74               | 38                                | .....        | 95       | July 12  | .....   | .....    | 39                       | .....               | .....             | .....  | 0.55           | Oct.   | .....                         | .....                      | .....              | .....                      | .....                         | .....               |
| South Orange.....                           | Essex.....      | 200              | 52                                | 51.8         | 91       | do. 12   | -2      | Feb. 17  | 52                       | 47.44               | 7.33              | June   | 1.29           | Nov    | 35.7                          | 116                        | .....              | .....                      | .....                         | w.                  |
| Woodcliff Lake.....                         | Bergen.....     | .....            | 4                                 | .....        | 91       | do. 12   | -2      | .....    | 4                        | .....               | 7.75              | July   | 0.67           | do.    | .....                         | .....                      | .....              | .....                      | .....                         | .....               |
| New York, N. Y.....                         | .....           | 365              | 52                                | 53.2         | 91       | July 13  | -2      | Feb. 17  | 52                       | 43.38               | 7.86              | June   | 1.16           | do.    | 26.9                          | 127                        | 105                | 118                        | 142                           | nw.                 |
| Means and extremes.....                     |                 | .....            | .....                             | 52.4         | 96       | July 12† | -5      | Jan. 17† | .....                    | 44.73               | 11.50             | June   | 0.52           | Nov    | 31.7                          | 118                        | 169                | 97                         | 99                            | nw                  |
| <i>The Southern Interior.</i>               |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                               |                            |                    |                            |                               |                     |
| Belle Plain.....                            | Cape May.....   | 30               | 27                                | .....        | 93       | July 12† | .....   | .....    | 28                       | .....               | 6.55              | July   | 1.01           | Nov    | .....                         | .....                      | .....              | .....                      | .....                         | .....               |
| Bridgeton.....                              | Cumberland..... | 30               | 36                                | 55.9         | 97       | do. 12   | 1       | Feb. 17  | 41                       | 34.85               | 5.24              | Aug    | 0.67           | do.    | 18.0                          | 103                        | .....              | .....                      | .....                         | w.                  |
| Burlington.....                             | Burlington..... | 12               | 10                                | 54.9         | 97       | do. 12   | 0       | do. 17   | 36                       | 35.98               | 5.13              | do.    | 0.57           | do.    | 26.4                          | 115                        | .....              | .....                      | .....                         | nw.                 |
| Camp Dix.....                               | Burlington..... | 127              | 4                                 | 53.2         | 95       | do. 12   | -2      | do. 17   | 4                        | .....               | 7.41              | July   | 0.74           | do.    | .....                         | .....                      | .....              | .....                      | .....                         | ne.                 |
| Hammonton.....                              | Atlantic.....   | 103              | .....                             | .....        | 93       | July 12† | -3      | Feb. 17  | 21                       | .....               | 6.78              | Aug.   | 0.62           | do.    | 26.0                          | .....                      | 190                | 87                         | 88                            | w.                  |
| Hightstown.....                             | Mercer.....     | 120              | 29                                | 52.3         | 93       | July 12† | -3      | Feb. 17  | 30                       | 42.69               | 6.05              | June   | 0.95           | do.    | .....                         | 118                        | 223                | 51                         | 91                            | sw.                 |
| Imlaystown.....                             | Monmouth.....   | 115              | 31                                | 52.9         | 96       | do. 12   | -3      | do. 17   | 34                       | .....               | 6.20              | do.    | 0.76           | do.    | .....                         | .....                      | .....              | .....                      | .....                         | sw.                 |
| Indian Mills.....                           | Burlington..... | 76               | 33                                | 53.8         | 97       | do. 12   | -3      | do. 17   | 32                       | 40.09               | 6.33              | July   | 0.69           | do.    | 29.0                          | 118                        | .....              | .....                      | .....                         | sw.                 |
| Lakewood.....                               | Ocean.....      | 54               | 18                                | 52.7         | 93       | do. 18   | -1      | do. 17   | 18                       | 44.31               | 11.22             | June   | 0.87           | Sept.  | .....                         | 117                        | 168                | 69                         | 128                           | sw.                 |
| Lumberton.....                              | Burlington..... | .....            | 59                                | 54.9         | 95       | July 12  | 0       | Feb. 17  | 59                       | 34.18               | 4.68              | Aug.   | 0.55           | do.    | .....                         | 122                        | .....              | .....                      | .....                         | w.                  |
| Moorestown.....                             | Burlington..... | 75               | 59                                | 54.9         | 95       | July 12  | 0       | Feb. 17  | 59                       | 34.18               | 4.68              | Aug.   | 0.55           | do.    | .....                         | 122                        | .....              | .....                      | .....                         | .....               |
| Northfield.....                             | Atlantic.....   | 25               | .....                             | .....        | .....    | .....    | .....   | .....    | 15                       | 35.25               | 5.85              | July   | 0.56           | do.    | 28.1                          | 121                        | .....              | .....                      | .....                         | .....               |
| Pleasantville.....                          | Atlantic.....   | 26               | .....                             | .....        | .....    | .....    | .....   | .....    | 24                       | 37.16               | 5.34              | Aug.   | 0.68           | do.    | .....                         | 115                        | 209                | 56                         | 100                           | .....               |
| Trenton.....                                | Mercer.....     | 190              | 50                                | 53.2         | 94       | July 12  | 0       | Feb. 17  | 50                       | 32.34               | 5.16              | do.    | 0.62           | do.    | 29.6                          | 122                        | 98                 | 111                        | 156                           | sw.                 |
| Tuckerton.....                              | Ocean.....      | 23               | 24                                | .....        | 95       | do. 13†  | -1      | do. 17   | 29                       | 40.36               | 5.94              | do.    | 1.01           | do.    | .....                         | 112                        | 181                | 112                        | 22                            | sw.                 |
| Vineland.....                               | Cumberland..... | 109              | 53                                | .....        | 95       | do. 12†  | 1       | do. 17   | 53                       | .....               | 9.21              | July   | 0.81           | do.    | .....                         | 113                        | .....              | .....                      | .....                         | .....               |
| Philadelphia, Pa.....                       | .....           | 117              | 51                                | 55.7         | 94       | do. 12   | 4       | do. 17   | 51                       | 29.31               | 4.56              | June   | 0.43           | do.    | 24.3                          | 123                        | 96                 | 109                        | 160                           | sw.                 |
| Means and extremes.....                     |                 | .....            | .....                             | 53.8         | 97       | do. 12   | -3      | Feb. 17  | .....                    | 37.72               | 11.22             | June   | 0.55           | Nov    | 26.2                          | 116                        | 178                | 81                         | 106                           | sw.                 |
| <i>The Sea Coast.</i>                       |                 |                  |                                   |              |          |          |         |          |                          |                     |                   |        |                |        |                               |                            |                    |                            |                               |                     |
| Asbury Park.....                            | Monmouth.....   | 22               | 32                                | 53.4         | 95       | June 11  | 0       | Feb. 17  | 33                       | .....               | 6.28              | June   | 0.96           | Oct    | .....                         | 117                        | 138                | 107                        | 120                           | nw.                 |
| Atlantic City.....                          | Atlantic.....   | 16               | 49                                | 53.9         | 90       | do. 11   | 4       | do. 17   | 49                       | 38.93               | 5.46              | do.    | 0.55           | Nov    | 26.8                          | 127                        | 142                | 95                         | 128                           | nw.                 |
| Cape May City.....                          | Cape May.....   | 17               | 38                                | 54.7         | 92       | do. 11   | 6       | do. 17   | 38                       | 40.72               | 6.06              | July   | 0.71           | do.    | 24.8                          | 136                        | 140                | 80                         | 145                           | nw.                 |
| Long Branch.....                            | Monmouth.....   | 25               | 15                                | 52.2         | 94       | Sept. 6  | 0       | do. 17   | 15                       | 36.16               | 5.42              | June   | 0.59           | Sept.  | 28.6                          | 137                        | 130                | 114                        | 121                           | nw.                 |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                                | 53.0         | 89       | Aug. 17† | 3       | do. 17   | 24                       | 37.26               | 8.98              | do.    | 1.09           | do.    | 15.7                          | 132                        | 115                | 132                        | 118                           | nw.                 |
| Means and extremes.....                     |                 | .....            | .....                             | 53.4         | 95       | June 11  | 0       | Feb. 17  | .....                    | 38.27               | 8.98              | June   | 0.58           | Nov    | 24.0                          | 130                        | 133                | 106                        | 126                           | nw.                 |
| For the State.....                          |                 | .....            | .....                             | 52.6         | 98       | July 12  | -11     | Jan. 17  | .....                    | 41.57               | 11.50             | June   | 0.49           | Nov    | 31.7                          | 119                        | 169                | 90                         | 106                           | nw.                 |

† Also on other dates.



STATIONS.

Letters of alphabet denote number of days missing.

Letters of alphabet denote number of days missing.



Monthly and Annual Mean Temperatures for the Year 1922, with Departures from the Normal.

| STATIONS.                                   | January.     |            | February.    |            | March.       |            | April.       |            | May.         |            | June.        |            | July.        |            | August.      |            | September.   |            | October.     |            | November.    |            | December.    |            | Annual.      |            |
|---------------------------------------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|
|                                             | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. | Temperature. | Departure. |
| <i>The Highlands and Kittatinny Valley.</i> |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Belvidere.....                              | 24.5         | -2.8       | 31.8         | +4.7       | 40.6         | +2.5       | 50.8         | +1.0       | 63.0         | +2.3       | 71.2         | +2.4       | 72.6         | -0.6       | 70.0         | -1.0       | 66.3         | +1.6       | 55.9         | +2.1       | 41.3         | +0.2       | 29.2         | -1.4       | 51.4         | +0.9       |
| Charlotteburg.....                          | 22.6         | -4.3       | 28.6         | +3.0       | 37.0         | +1.2       | 47.4         | +0.6       | 59.0         | +1.5       | 66.6         | +1.8       | 68.6         | -1.4       | 66.1         | -1.8       | 61.6         | -0.3       | 52.4         | +0.8       | 41.5         | +1.4       | 28.8         | -1.0       | 48.4         | +0.1       |
| Dover.....                                  | 24.4         | -2.2       | 30.7         | +4.5       | 38.8         | +3.6       | 49.4         | +2.0       | 61.6         | +3.0       | 69.8         | +3.1       | 71.3         | -0.1       | 69.2         | +0.1       | 64.2         | +2.0       | 53.3         | +2.0       | 42.3         | +2.2       | 29.1         | -0.8       | 50.3         | +1.6       |
| Layton.....                                 | 23.0         | -1.7       | 29.7         | +6.1       | 36.4         | +0.8       | 48.5         | +1.3       | 59.8         | +1.8       | 68.9         | +3.4       | 70.6         | -0.3       | 68.4         | 0.0        | 64.5         | +2.2       | 53.1         | +1.6       | 40.0         | +1.2       | 27.6         | +0.2       | 49.2         | +1.4       |
| Newton.....                                 | 23.2         | -2.5       | 30.0         | +3.5       | 37.4         | +1.9       | 48.7         | +0.7       | 62.2         | +2.7       | 69.0         | +1.0       | 70.8         | -1.7       | 68.9         | -1.5       | 65.0         | +1.5       | 54.9         | +2.2       | 42.2         | +1.7       | 28.3         | -1.8       | 50.0         | +0.6       |
| Phillipsburg.....                           | 27.0         | -1.1       | 34.2         | +6.3       | 42.6         | +4.5       | 50.6         | +0.7       | 64.6         | +3.3       | 72.4         | +3.1       | 75.2         | +1.1       | 71.8         | 0.0        | 66.8         | +1.6       | 56.2         | +2.3       | 42.2         | +1.1       | 28.8         | -1.1       | .....        | .....      |
| Sussex.....                                 | 23.7         | -2.9       | 31.2         | +5.8       | 38.9         | +2.6       | 50.5         | +1.9       | 61.0         | +1.1       | 70.4         | +3.6       | 72.2         | +0.1       | .....        | .....      | 66.9         | +2.7       | 55.1         | +1.9       | 42.2         | +1.1       | 28.8         | -1.1       | .....        | .....      |
| <i>The Red Sandstone Plain.</i>             |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Bergen Point.....                           | 28.1         | -2.6       | 33.1         | +3.7       | 40.3         | +0.8       | 50.1         | +0.6       | 63.6         | +3.3       | 72.0         | +3.6       | 74.4         | +0.4       | 72.9         | +0.7       | 67.2         | +0.8       | 58.0         | +1.8       | 45.6         | +1.9       | 33.7         | +0.7       | 53.2         | +1.3       |
| Boonton.....                                | 23.5         | -3.8       | 29.9         | +2.8       | 38.6         | +2.0       | 48.4         | -0.3       | 60.6         | +1.4       | 69.2         | +1.6       | 70.1         | -2.4       | 68.7         | -2.6       | 63.3         | -0.3       | 53.8         | +1.0       | 40.9         | -0.5       | 28.0         | -2.5       | 49.6         | -0.3       |
| Elizabeth.....                              | 28.3         | -1.9       | 34.2         | +3.7       | 42.3         | +3.5       | 52.1         | +1.3       | 64.3         | +2.3       | 72.2         | +1.7       | 73.9         | -1.4       | 72.8         | -0.6       | 68.0         | +1.3       | 57.5         | +2.1       | 45.1         | +1.6       | 32.9         | -0.4       | 53.6         | +1.1       |
| Flemington.....                             | 27.6         | -2.2       | 34.2         | +5.4       | 42.5         | +2.4       | 52.6         | +2.2       | 63.9         | +2.6       | 71.8         | +2.6       | 73.8         | -0.8       | 71.0         | -1.5       | 67.6         | +1.3       | 57.4         | +1.4       | 44.7         | +1.8       | 32.5         | +0.5       | 53.3         | +1.8       |
| Highwood.....                               | 26.2         | -2.6       | 31.6         | +3.2       | 40.4         | +3.4       | 50.3         | +1.8       | 62.4         | +3.1       | 69.6         | +2.0       | 71.4         | -0.9       | 69.5         | -1.3       | 64.2         | +0.5       | 53.7         | +0.3       | 42.4         | +0.4       | 31.0         | -0.8       | 51.1         | +0.8       |
| Jersey City.....                            | 28.8         | -3.4       | 35.2         | +4.6       | 42.6         | +3.4       | 52.2         | +2.2       | 63.9         | +2.6       | 72.9         | +2.0       | 75.2         | -0.9       | 72.8         | -1.3       | 68.8         | +1.6       | 58.2         | +1.9       | 45.9         | +1.9       | 34.2         | +0.1       | 54.2         | +1.2       |
| Kearny.....                                 | 28.0         | .....      | 34.0         | .....      | 41.6         | .....      | 52.6         | .....      | 63.9         | .....      | 73.0         | .....      | 74.4         | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      |
| Lambertville.....                           | 26.3         | -4.2       | 32.4         | +2.0       | 39.8         | +0.4       | 50.7         | 0.0        | 62.6         | +1.0       | 70.5         | +0.8       | 72.6         | -1.7       | 70.4         | -2.0       | 66.8         | +1.0       | 56.8         | +2.2       | 43.7         | +0.5       | 31.6         | -2.0       | 52.0         | -0.2       |
| Little Falls.....                           | 24.8         | -2.6       | 32.0         | +2.4       | .....        | .....      | 50.9         | +1.0       | 63.1         | +3.4       | 71.0         | +3.3       | 72.8         | -1.0       | 71.2         | -2.0       | 66.0         | +1.9       | 56.5         | +1.6       | 43.8         | +1.6       | 30.6         | -0.9       | .....        | .....      |
| Newark.....                                 | 27.4         | -2.4       | 32.8         | +3.7       | 40.6         | +1.6       | 51.2         | +1.2       | 64.8         | +3.7       | 72.4         | +3.1       | 73.4         | -1.2       | 72.4         | -0.4       | 67.6         | +1.2       | 56.9         | +1.1       | 45.1         | +1.3       | 32.2         | -1.1       | 53.1         | +1.0       |
| New Brunswick.....                          | 28.1         | -2.1       | 34.0         | +3.2       | 41.6         | +2.8       | 51.2         | +1.6       | 62.9         | +2.5       | 71.2         | +2.1       | 72.9         | -1.1       | 71.2         | -0.9       | 66.4         | +0.8       | 56.9         | +2.1       | 44.8         | +1.4       | 33.0         | -0.2       | 52.8         | +1.0       |
| Paterson.....                               | 28.4         | -1.2       | 34.2         | +4.0       | 42.4         | +3.6       | 52.8         | +2.3       | 65.4         | +3.9       | 72.2         | +2.4       | 74.1         | -0.3       | 72.4         | +0.2       | 67.6         | +1.4       | 58.2         | +3.0       | 45.6         | +2.1       | 33.0         | -0.1       | 53.9         | +1.8       |
| Plainfield.....                             | 25.6         | -4.4       | 32.2         | +3.5       | 40.4         | +1.6       | 49.9         | +0.3       | 61.2         | +1.0       | 70.4         | +1.6       | 71.6         | -2.4       | 70.3         | -1.5       | 65.2         | -0.4       | 54.9         | +0.7       | 43.8         | +1.3       | 31.0         | -1.7       | 51.4         | 0.0        |
| Ridgefield.....                             | 26.4         | .....      | 32.2         | .....      | 39.5         | .....      | 50.0         | .....      | 62.3         | .....      | 70.5         | .....      | 72.2         | .....      | 70.6         | .....      | 65.4         | .....      | 54.9         | .....      | 43.0         | .....      | 30.2         | .....      | 51.4         | .....      |
| Somerville.....                             | 28.1         | .....      | 34.0         | .....      | 41.6         | .....      | 51.2         | .....      | 62.9         | .....      | 71.2         | .....      | 72.9         | .....      | 71.2         | .....      | 66.4         | .....      | 56.9         | .....      | 44.8         | .....      | 33.0         | .....      | 52.8         | .....      |
| South Orange.....                           | 26.4         | -2.5       | 32.2         | +3.2       | 40.4         | +3.3       | 50.4         | +1.9       | 62.5         | +2.5       | 70.9         | +2.1       | 72.2         | -1.0       | 71.3         | +0.4       | 64.8         | +0.7       | 55.2         | +1.8       | 43.6         | +1.8       | 31.4         | -0.7       | 51.8         | +1.2       |
| New York, N. Y.....                         | 29.0         | -1.2       | 34.5         | +3.8       | 41.3         | +3.8       | 51.0         | +2.9       | 63.6         | +4.3       | 70.6         | +2.1       | 72.7         | -0.8       | 71.4         | -0.8       | 67.4         | +0.9       | 57.6         | +2.0       | 45.4         | +1.4       | 34.3         | -0.1       | 53.2         | +1.5       |
| <i>The Southern Interior.</i>               |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Belle Plain.....                            | .....        | .....      | .....        | .....      | .....        | .....      | 52.2         | +1.6       | 62.6         | +1.5       | 71.8         | +3.1       | 73.1         | -0.7       | 71.2         | -1.4       | 65.8         | -0.7       | 56.6         | +0.3       | 44.9         | +0.4       | 36.4         | +1.3       | .....        | .....      |
| Bridgeton.....                              | 31.3         | -2.4       | 37.0         | +3.3       | 44.6         | +2.3       | 55.0         | +2.3       | 66.1         | +2.1       | 74.0         | +1.9       | 76.0         | -0.7       | 73.8         | -1.2       | 69.9         | +1.7       | 59.8         | +2.4       | 46.8         | +1.2       | 36.3         | +0.1       | 55.9         | +1.1       |
| Burlington.....                             | 29.2         | -3.1       | 35.0         | +3.7       | 43.6         | +3.2       | 53.6         | +1.8       | 66.0         | +4.1       | 73.4         | +3.7       | 76.0         | +1.2       | 73.3         | -0.9       | 69.6         | +2.8       | 59.1         | +0.9       | 46.0         | +1.6       | 33.9         | +0.1       | 54.9         | +1.6       |
| Camp Dix.....                               | 28.8         | .....      | 34.8         | .....      | 39.4         | .....      | 52.9         | .....      | 63.8         | .....      | 71.7         | .....      | 73.6         | .....      | 70.9         | .....      | 66.8         | .....      | 57.8         | .....      | 45.0         | .....      | 33.4         | .....      | 53.2         | .....      |
| Hightstown.....                             | 27.8         | -2.1       | 33.9         | +4.5       | 41.8         | +1.4       | 50.8         | +0.3       | 62.4         | +1.1       | 71.1         | +2.1       | 72.1         | -2.3       | 70.4         | -1.9       | 65.6         | -1.2       | 55.8         | +0.6       | 43.6         | +0.3       | 32.0         | -0.6       | 52.3         | +0.2       |
| Imlaystown.....                             | 28.5         | -2.6       | 34.4         | +4.0       | 42.3         | +3.2       | 51.0         | +0.5       | 63.5         | +1.6       | 72.2         | +1.9       | 73.5         | -1.2       | 73.8         | +1.0       | 66.4         | +0.1       | 56.0         | +0.9       | 41.8         | -1.0       | 31.9         | -1.0       | 52.9         | +0.6       |
| Indian Mills.....                           | 28.8         | -3.1       | 35.2         | +3.4       | 42.8         | +2.3       | 52.2         | +1.9       | 64.2         | +2.1       | 71.8         | +2.0       | 73.6         | -1.1       | 71.3         | -1.3       | 67.4         | +1.3       | 57.8         | +2.3       | 45.9         | +3.0       | 34.0         | +0.2       | 53.8         | +1.1       |
| Lakewood.....                               | 29.0         | -2.3       | 34.6         | +4.9       | 41.6         | +2.0       | 51.3         | +1.9       | 62.8         | +2.6       | 71.5         | +4.0       | 72.8         | 0.0        | 70.4         | -0.7       | 65.2         | +0.6       | 55.2         | +0.1       | 44.0         | +1.2       | 33.8         | +0.3       | 52.7         | +1.2       |
| Lumberton.....                              | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | .....        | .....      | 71.8         | .....      | 67.0         | .....      | .....        | .....      | 45.6         | .....      | 33.2         | .....      | .....        | .....      |
| Moorestown.....                             | 29.8         | -0.9       | 35.5         | +4.2       | 44.6         | +5.4       | 53.4         | +3.0       | 65.9         | +4.6       | 74.2         | +4.2       | 74.4         | -0.3       | 73.0         | +0.4       | 69.0         | +3.0       | 59.4         | +4.7       | 45.4         | +2.2       | 34.4         | +0.9       | 54.9         | +2.6       |
| Trenton.....                                | 28.4         | -2.1       | 34.2         | +3.5       | 41.2         | +2.1       | 51.6         | +1.8       | 64.2         | +3.1       | 71.8         | +2.3       | 73.4         | -1.1       | 71.0         | -2.0       | 67.2         | +0.3       | 57.7         | +2.1       | 45.0         | +0.6       | 32.9         | -1.5       | 53.2         | +0.7       |
| Tuckerton.....                              | 30.8         | -1.8       | 36.8         | +6.0       | 42.8         | +2.8       | 50.4         | +1.1       | 62.6         | +2.7       | 71.0         | +2.6       | 74.0         | -0.1       | 72.6         | -0.1       | 68.6         | +2.4       | 58.0         | +1.9       | 45.8         | +1.7       | .....        | .....      | .....        | .....      |
| Vineland.....                               | 31.6         | -0.6       | 38.2         | +5.7       | 44.6         | +4.1       | 53.6         | +2.6       | 66.1         | +3.8       | 73.6         | +2.4       | 75.8         | -0.6       | 73.4         | -0.3       | 68.6         | +1.6       | .....        | .....      | 47.0         | +2.9       | 36.8         | +2.3       | .....        | .....      |
| Philadelphia, Pa.....                       | 31.2         | -0.6       | 36.7         | +3.9       | 43.6         | +3.6       | 54.0         | +3.2       | 66.4         | +4.2       | 73.6         | +2.4       | 75.5         | -0.3       | 73.0         | -0.8       | 69.7         | +2.3       | 60.6         | +4.3       | 48.1         | +3.2       | 36.1         | +0.4       | 55.7         | +2.2       |
| <i>The Sea Coast.</i>                       |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |              |            |
| Asbury Park.....                            | 31.2         | -1.0       | 35.4         | +4.0       | 41.0         | +2.0       | 50.3         | +1.8       | 61.0         | +2.2       | 69.3         | +1.9       | 72.4         | 0.0        | 70.9         | -0.9       | 67.9         | +1.1       | 58.2         | +2.4       | 46.4         | +1.6       | 36.6         | +1.6       | 53.4         | +1.4       |
| Atlantic City.....                          | 32.2         | -0.3       | 36.6         | +3.6       | 41.6         | +2.8       | 49.4         | +1.6       | 61.2         | +3.1       | 69.9         | +3.3       | 72.2         | +0.1       | 71.2         | -1.3       | 68.6         | +1.8       | 59.2         | +2.3       | 47.1         | +1.5       | 37.4         | +1.0       | 53.9         | +1.6       |
| Cape May City.....                          | 32.4         | -1.7       | 36.2         | +2.1       | 42.2         | +1.4       | 51.3         | +2.9       | 62.6         | +4.0       | 70.7         | +3.0       | 73.0         | -0.4       | 72.7         | -0.7       | 69.2         | +0.2       | 60.1         | +0.5       | 48.2         | +0.8       | 38.3         | +0.8       | 54.7         | +1.0       |
| Long Branch.....                            | 28.6         | -3.0       | 34.2         | +3.8       | 39.8         | +1.3       | 49.8         | +1.7       | 61.2         | +3.0       | 69.6         | +3.4       | 71.8         | -0.3       | 71.0         | 0.0        | 67.0         | +1.1       | 56.6         | +0.3       | 44.4         | +0.2       | 32.7         | -1.4       | 52.2         | +0.8       |
| Sandy Hook.....                             | 29.3         | -0.6       | 33.6         | +3.0       | 40.2         | +3.2       | 49.6         | +2.6       | 61.8         | +3.3       | 70.2         | +2.4       | 72.7         | -1.0       | 72.0         | -0.8       | 68.0         | +0.9       | 58.5         | +1.5       | 45.6         | +1.0       | 34.4         | 0.0        | 53.0         | +1.3       |

Letters of alphabet denote number of days missing.



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXVIII.

JANUARY, 1923.

No. 1.

### GENERAL SUMMARY.

There was considerable contrast between the weather conditions which prevailed in the northern and southern divisions of the State during January. The northern portion was sub-normal in warmth, sunshine and bright, clear days, and there was a moderate excess of snow. The southern counties, however, were slightly above normal temperature and, in fact, averaged above freezing, thus contributing effectively toward relief from the fuel shortage. The 17th, 18th, 30th, and 31st were the coldest days, and the warmest were the 1st and 21st, and the variability of temperature was not marked by great extremes. The frequency and amount of precipitation, both snow and rain, were not much above normal conditions. Snow remained on the ground in northern counties very constantly, and afforded good sleighing on roads which were not cleared. The mean temperature for the State averaged ten degrees warmer than the record breaking month of January, 1918, and eleven degrees colder than January, 1890. Violent and damaging storms were mostly lacking, and the snowfall offered no hindrance to transportation or wire facilities. Farming activities diminished to the usual midwinter minimum, except that there were occasional days when some plowing was done in southern counties. Much general hauling was done, and more than the usual amount of firewood was prepared and used.

Storm warnings were displayed along the coast on the 1st, 3d, 6th, 7th, 10th, 11th, 14th, 18th, 20th, 24th, and 25th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 30.1°, which was 0.2 above the normal. The highest temperature was 66° at Long Branch on the 21st, and the lowest, 14° below zero at Layton on the 31st. The greatest daily range was 44° at Boonton on the 18th and at Charlotteburg on the 20th. The highest monthly mean was 35.8° at Vineland and the lowest, 23.9° at Layton.

The temperature departure from the normal for the year 1923 to date, by sections, is: The Highlands, -0.6°; Red Sandstone Plain, -0.8°; Southern Interior, +1.4°; Sea Coast, +1.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 5.22 inches, which was 1.57 inches above the normal. The greatest monthly precipitation was 7.26 inches at Ridgefield, and the least, 3.41 inches at Pleasantville. The average total snowfall was 16.6 inches, which was 7.7 inches above the normal; this average ranged from 27.7 inches in the Highlands to 6.2 inches in the Southern Interior. The greatest precipitation accumulated in any 24 consecutive hours was 2.83 inches at Vineland on the 1st. The average number of days on which .01 inch or more of precipitation fell was 12, which was 1 more than the normal.

The precipitation accumulated departure from the normal for the year 1923 to date, by sections, is: The Highlands, +1.48 inches; Red Sandstone Plain, +1.75 inches; Southern Interior, +1.58 inches; Sea Coast, +1.17 inches.

### WIND.

The prevailing wind direction was from the northwest, which was normal. The wind movement was 15 miles per hour, which was 1 mile above the normal. The highest velocity, sustained for 5 consecutive minutes, was 72 miles per hour from the south-east at Atlantic City on the 24th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 9, which was 1 less than the normal; partly cloudy 7, or 2 less than the normal; cloudy, 15, or 3 more than the normal. The per cent of possible sunshine was 42, which was 8 per cent below the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.09 inches, which was 0.02 inch below the normal. The highest reading was 30.83 inches at Sandy Hook on the 23d, and the lowest, 29.41 inches at Ridgefield on the 1st.

The mean stage of the Delaware River at Phillipsburg was 2.7 feet, and the highest 5.0 feet on the 3d. At Trenton the mean daily stage was 1.8 feet, which was 1.8 feet below the normal. The highest stage was 3.6 feet on the 3d, and the lowest, 0.7 foot on the 1st.

Dense fog occurred on the 1st, 6th, 9th, and 21st. Sleet was observed quite generally throughout the northern half of the State on the 31st, and at scattered stations on the 3d, 8th, 22d, 24th, and 25th. Solar halos were observed on the 16th, 20th, 23d, 26th, and 27th, and lunar halos on the 2d, 5th, 23d, and 24th. Thunder was heard at Cape May City on the 20th.

### COMPARATIVE DATA FOR JANUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.8         | 67       | 0       | 4.08           | 5.41      | 3.33   | .....        | .....          | .....   | .....                  |
| 1886..... | 27.3         | 60       | -10     | 4.47           | 5.59      | 3.08   | .....        | .....          | .....   | .....                  |
| 1887..... | 28.4         | 67       | -6      | 3.86           | 6.65      | 2.00   | .....        | .....          | 12      | 10                     |
| 1888..... | 25.4         | 59       | -12     | 4.77           | 6.74      | 2.80   | .....        | .....          | 12      | 9                      |
| 1889..... | 36.2         | 60       | 8       | 5.68           | 8.78      | 3.84   | .....        | .....          | 9       | 9                      |
| 1890..... | 41.3         | 78       | 12      | 2.29           | 3.22      | 1.05   | .....        | .....          | 11      | 10                     |
| 1891..... | 34.2         | 59       | 10      | 6.57           | 10.55     | 4.41   | 10           | 11             | 10      | 10                     |
| 1892..... | 29.9         | 67       | -6      | 5.13           | 7.05      | 2.50   | 10           | 9              | 12      | 10                     |
| 1893..... | 21.6         | 54       | -21     | 3.04           | 4.56      | 1.87   | 10           | 10             | 11      | 9                      |
| 1894..... | 34.2         | 61       | -4      | 2.34           | 3.80      | 1.18   | 10           | 8              | 13      | 11                     |
| 1895..... | 28.1         | 64       | -4      | 4.66           | 5.80      | 2.48   | 10           | 10             | 11      | 11                     |
| 1896..... | 28.6         | 61       | -7      | 1.66           | 2.81      | 0.68   | 12           | 10             | 9       | 5                      |
| 1897..... | 29.0         | 64       | -6      | 2.80           | 4.21      | 1.70   | 11           | 8              | 12      | 9                      |
| 1898..... | 32.6         | 64       | -10     | 4.20           | 5.90      | 2.79   | 9            | 11             | 11      | 11                     |
| 1899..... | 30.1         | 60       | -21     | 4.01           | 5.73      | 2.40   | 13           | 8              | 10      | 11                     |
| 1900..... | 32.4         | 64       | -5      | 3.85           | 5.50      | 2.37   | 11           | 11             | 9       | 10                     |
| 1901..... | 30.4         | 63       | -6      | 2.52           | 4.00      | 1.35   | 11           | 11             | 9       | 9                      |
| 1902..... | 28.4         | 58       | -5      | 3.28           | 4.35      | 2.52   | 12           | 9              | 10      | 10                     |
| 1903..... | 30.4         | 57       | -5      | 3.90           | 5.04      | 2.31   | 10           | 10             | 11      | 10                     |
| 1904..... | 23.3         | 58       | -34     | 3.09           | 4.67      | 1.34   | 13           | 7              | 11      | 10                     |
| 1905..... | 27.0         | 60       | -16     | 4.18           | 7.13      | 2.68   | 12           | 9              | 10      | 9                      |
| 1906..... | 36.5         | 74       | -5      | 2.85           | 3.86      | 2.08   | 11           | 9              | 11      | 11                     |
| 1907..... | 31.8         | 71       | -19     | 3.50           | 5.80      | 1.93   | 8            | 9              | 14      | 14                     |
| 1908..... | 31.8         | 60       | -6      | 3.74           | 5.22      | 2.29   | 12           | 11             | 8       | 9                      |
| 1909..... | 33.2         | 69       | -12     | 3.18           | 4.13      | 2.18   | 8            | 9              | 14      | 12                     |
| 1910..... | 29.7         | 54       | -15     | 5.04           | 6.65      | 3.66   | 8            | 8              | 15      | 15                     |
| 1911..... | 33.5         | 63       | 0       | 3.44           | 5.34      | 1.97   | 10           | 7              | 14      | 14                     |
| 1912..... | 22.3         | 58       | -32     | 2.82           | 4.62      | 1.73   | 8            | 12             | 11      | 13                     |
| 1913..... | 35.9         | 68       | 10      | 3.58           | 4.71      | 2.63   | 11           | 7              | 13      | 14                     |
| 1914..... | 31.9         | 73       | -12     | 3.85           | 6.15      | 1.95   | 9            | 8              | 14      | 9                      |
| 1915..... | 33.5         | 61       | 3       | 6.55           | 8.92      | 4.40   | 11           | 6              | 14      | 12                     |
| 1916..... | 35.1         | 74       | -2      | 1.60           | 2.96      | 0.92   | 11           | 8              | 12      | 11                     |
| 1917..... | 31.4         | 58       | 0       | 3.26           | 4.52      | 2.35   | 10           | 8              | 13      | 13                     |
| 1918..... | 20.3         | 56       | -16     | 4.14           | 6.14      | 2.78   | 12           | 8              | 11      | 11                     |
| 1919..... | 34.1         | 62       | -7      | 3.51           | 4.44      | 2.24   | 14           | 7              | 10      | 8                      |
| 1920..... | 23.6         | 53       | -10     | 2.60           | 3.53      | 1.61   | 11           | 7              | 13      | 11                     |
| 1921..... | 23.0         | 63       | -5      | 2.63           | 3.49      | 1.78   | 13           | 8              | 10      | 9                      |
| 1922..... | 27.6         | 57       | -11     | 2.62           | 4.13      | 1.08   | 15           | 6              | 10      | 8                      |
| 1923..... | 30.1         | 66       | -14     | 5.22           | 7.26      | 3.41   | 9            | 7              | 15      | 12                     |



## Climatological Data for January, 1923.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |         |       |                       | Precipitation, in inches. |                            |                       |                            | No. of days.                   |        |             |         | Prevailing direction of wind. | Observers.                |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|---------|-------|-----------------------|---------------------------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|---------|-------------------------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest. | Date. | Greatest daily range. | Total.                    | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. | Cloudy. |                               |                           |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |                 |       |         |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 26.3                          | -1.0                       | 47              | 1     | -2      | 31    | 29                    | 5.38                      | +1.84                      | 1.82                  | 23.3                       | 9                              | 10     | 6           | 15      | .....                         | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 25.2                          | -1.7                       | 48              | 1     | -9      | 31    | 44                    | 5.91                      | +2.36                      | 1.71                  | 25.5                       | 9                              | 10     | 4           | 17      | nw.                           | Newark Water Dept.        |
| Culvers Lake††.....                         | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 5.03                      | +1.85                      | 1.25                  | 38.9                       | 14                             | 8      | 6           | 17      | nw.                           | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 38                       | 25.4                          | -1.2                       | 51              | 1     | -1      | 18†   | 36                    | 5.80                      | +1.41                      | 1.80                  | 29.5                       | 11                             | 4      | 13          | 14      | .....                         | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 23.9                          | -0.8                       | 47              | 12    | -14     | 31    | 32                    | 5.10                      | +2.21                      | 1.15                  | 32.8                       | 15                             | 7      | 8           | 16      | nw.                           | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 25.8 <sup>d</sup>             | +0.1                       | 49              | 2     | -3      | 18    | 36 <sup>d</sup>       | 4.29                      | +0.68                      | 1.15                  | 28.0                       | 11                             | 10     | 2           | 19      | ne.                           | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 29.4 <sup>e</sup>             | +1.3                       | 50              | 1     | 8       | 17    | 30                    | 4.10                      | +0.50                      | 0.83                  | 14.0                       | 10                             | 9      | 9           | 13      | .....                         | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 25.6                          | -1.0                       | 46              | 1     | -11     | 31    | 38                    | 4.46                      | +0.98                      | 1.15                  | 29.5                       | 15                             | 4      | 6           | 21      | nw.                           | Rev. W. August George     |
| Means and extremes.....                     |                 |                  |                          | 25.9                          | -0.6                       | 51              | 1     | -14     | 31    | 44                    | 5.01                      | +1.48                      | 1.82                  | 27.7                       | 12                             | 8      | 7           | 16      | nw.                           |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |                 |       |         |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 25                       | 30.2                          | -0.5                       | 51              | 1†    | 10      | 18    | 28                    | 5.53                      | +1.64                      | 1.53                  | 11.0                       | 13                             | 5      | 11          | 15      | nw.                           | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 32                       | 25.0 <sup>a</sup>             | -2.3                       | 49              | 1     | -5      | 31    | 44                    | 4.86                      | +1.03                      | 0.86                  | .....                      | 13                             | 13     | 1           | 17      | nw.                           | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 5.89                      | +2.20                      | 0.93                  | 23.0                       | 13                             | 11     | 1           | 9       | .....                         | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 30.2                          | 0.0                        | 50              | 1     | 5       | 31    | 31                    | 5.68                      | +1.64                      | 1.31                  | 24.0                       | 14                             | 8      | 10          | 13      | nw.                           | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 29.2                          | -0.6                       | 51              | 1     | -1      | 31    | 29                    | 4.58                      | +0.89                      | 1.21                  | 20.0                       | 12                             | 11     | 5           | 15      | nw.                           | Hiram E. Deats.           |
| Highwood.....                               | Bergen.....     | 90               | 34                       | 27.4                          | -1.4                       | 52              | 1     | -2      | 31    | 35                    | 6.40                      | +2.45                      | 1.37                  | 32.0                       | 10                             | 8      | 14          | 9       | ne.                           | Grant McQuaid.            |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 30.7                          | -1.5                       | 52              | 21    | 9       | 18    | 29                    | 6.24                      | +2.74                      | 1.60                  | 23.2                       | 14                             | 8      | 6           | 17      | nw.                           | S. K. Pearson, Jr.        |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 29.1                          | -1.4                       | 50              | 1†    | 8       | 18†   | 27                    | 4.31                      | +0.66                      | 1.18                  | 20.0                       | 13                             | 9      | 5           | 17      | nw.                           | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 27.0                          | -1.0                       | 51              | 1     | -1      | 31    | 38                    | 5.96                      | +2.26                      | 1.29                  | 25.0                       | 12                             | 11     | 7           | 13      | nw.                           | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 80                       | 28.8                          | -1.0                       | 52              | 21    | 9       | 17†   | 29                    | 7.07                      | +3.31                      | 1.89                  | 23.9                       | 14                             | 9      | 6           | 13      | nw.                           | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 30.4                          | +0.2                       | 54              | 21    | 3       | 31    | 32                    | 4.60                      | +0.81                      | 1.36                  | 7.8                        | 13                             | 11     | 10          | 10      | n.                            | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 2                | .....                    | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 4.72                      | .....                      | 1.59                  | .....                      | 11                             | .....  | .....       | .....   | .....                         | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 29.4                          | -0.2                       | 47              | 21    | 6       | 18†   | 26                    | 5.17                      | +1.32                      | 1.30                  | 28.0                       | 11                             | 4      | 2           | 25      | nw.                           | Marion T. Probert.        |
| Plainfield.....                             | Union.....      | 120              | 34                       | 28.3                          | -1.7                       | 50              | 1†    | -3      | 31    | 34                    | 5.67                      | +1.65                      | 1.40                  | 27.2                       | 12                             | 7      | 9           | 15      | nw.                           | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 70               | 7                        | 26.8                          | .....                      | 52              | 1     | 1       | 31    | 33                    | 7.26                      | .....                      | 1.40                  | 26.9                       | 15                             | 9      | 6           | 16      | nw.                           | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 70               | 39                       | 29.4                          | +0.6                       | 51              | 1     | -2      | 31    | 34                    | .....                     | .....                      | 1.25                  | 17.0                       | .....                          | 18     | 5           | 8       | nw.                           | H. B. TenEyck.            |
| South Orange.....                           | Essex.....      | 200              | 52                       | 28.9                          | 0.0                        | 49              | 3†    | .....   | ..... | .....                 | 5.88                      | +1.85                      | 1.42                  | 23.5                       | 11                             | 12     | 6           | 13      | nw.                           | Wm. H. Meeder.            |
| Woodcliffe Lake††.....                      | Bergen.....     | 2                | .....                    | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | .....                     | .....                      | 1.20                  | .....                      | 11                             | .....  | .....       | .....   | .....                         | Hackensack Water Co.      |
| New York, N. Y.....                         | Bergen.....     | 365              | 52                       | 31.0                          | +0.1                       | 53              | 1     | 10      | 18    | 30                    | 5.97                      | +2.18                      | 1.48                  | 21.8                       | 15                             | 5      | 10          | 16      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 28.7                          | -0.8                       | 54              | 21    | -5      | 31    | 44                    | 5.61                      | +1.75                      | 1.89                  | 22.2                       | 12                             | 10     | 7           | 14      | nw.                           |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |                 |       |         |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 34.4 <sup>a</sup>             | +1.4                       | 62 <sup>b</sup> | 21    | 7       | 18    | 35                    | 4.37                      | +0.84                      | 1.05                  | 4.1                        | 10                             | 17     | 5           | 9       | nw.                           | Thomas J. Durell.         |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 35.4                          | +1.7                       | 62              | 21    | 15      | 18    | 27                    | 5.49                      | +1.97                      | 2.00                  | 4.5                        | 9                              | 13     | 7           | 11      | w.                            | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 31.6 <sup>a</sup>             | -0.7                       | 58              | 21    | 10      | 31    | 27                    | 4.96                      | +1.56                      | 1.40                  | 6.6                        | 14                             | 13     | 5           | 13      | nw.                           | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 32.4                          | .....                      | 63              | 21    | 3       | 31    | 31                    | 3.39                      | .....                      | 0.94                  | .....                      | 8                              | 4      | 12          | 15      | nw.                           | U. S. Army.               |
| Hammononton.....                            | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 5.07                      | +1.28                      | 2.05                  | 5.0                        | 13                             | 12     | 8           | 11      | w.                            | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 29.9                          | 0.0                        | 56              | 21    | 3       | 31    | 31                    | 5.49                      | +2.22                      | 1.70                  | 9.5                        | 12                             | 14     | 3           | 14      | nw.                           | E. H. Savage, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 4.88                      | +1.34                      | 1.75                  | .....                      | 15                             | 14     | 2           | 15      | w.                            | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 33                       | 33.4                          | +1.5                       | 64              | 21    | 4       | 31    | 35                    | 6.78                      | +2.96                      | 2.78                  | 7.0                        | 13                             | 8      | 7           | 16      | nw.                           | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 32.7                          | +1.4                       | 65              | 21    | 3       | 31    | 31                    | 5.74                      | +2.06                      | 1.45                  | 7.0                        | 14                             | 12     | 2           | 17      | nw.                           | R. W. Holman.             |
| Lumberton.....                              | Burlington..... | .....            | .....                    | 32.3                          | .....                      | 63              | 21    | 8       | 31    | 29                    | 5.21                      | .....                      | 1.77                  | .....                      | 12                             | 9      | 8           | 14      | nw.                           | Ralph Stermer.            |
| Moorestown.....                             | Burlington..... | 75               | 59                       | 34.2 <sup>b</sup>             | +3.5                       | 59 <sup>b</sup> | 1†    | .....   | ..... | .....                 | 5.18                      | +1.72                      | .....                 | .....                      | 12                             | .....  | .....       | .....   | .....                         | Stokes Seed Farms Co.     |
| Northfield††.....                           | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 3.96                      | +0.43                      | 0.71                  | 5.0                        | 13                             | .....  | .....       | .....   | .....                         | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 3.41                      | +0.25                      | 0.84                  | 2.7                        | 13                             | 12     | 6           | 13      | .....                         | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 31.0                          | +0.5                       | 56              | 21    | 11      | 17    | 31                    | 4.13                      | +0.96                      | 1.02                  | 12.8                       | 12                             | 5      | 7           | 19      | nw.                           | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | .....                         | .....                      | .....           | ..... | .....   | ..... | .....                 | 7.03                      | +3.01                      | 2.83                  | 4.0                        | 13                             | 10     | 9           | 12      | nw.                           | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 35.8                          | +3.6                       | 63              | 21    | 14      | 17†   | 28                    | 4.78                      | +1.37                      | 1.21                  | 6.1                        | 12                             | 4      | 9           | 18      | nw.                           | H. C. Himes.              |
| Philadelphia, Pa.....                       | .....           | 117              | 62                       | 34.4                          | +1.8                       | 59              | 21    | 14      | 18    | 28                    | .....                     | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....   | .....                         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 33.0                          | +1.4                       | 65              | 21    | 2       | 31    | 35                    | 5.05                      | +1.58                      | 2.83                  | 6.2                        | 12                             | 11     | 6           | 14      | nw.                           |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |                 |       |         |       |                       |                           |                            |                       |                            |                                |        |             |         |                               |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 33.6                          | +1.4                       | 64              | 21    | 11      | 31    | 27                    | 4.86                      | +1.29                      | 1.02                  | 6.0                        | 12                             | 9      | 6           | 16      | nw.                           | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 35.6                          | +3.1                       | 53              | 1     | 15      | 17    | 25                    | 4.08                      | +0.68                      | 1.04                  | 4.1                        | 11                             | 6      | 12          | 13      | nw.                           | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 34                       | 35.6                          | +1.5                       | 55              | 21    | 16      | 18    | 25                    | 3.44                      | +0.07                      | 0.99                  | 1.1                        | 11                             | 7      | 5           | 19      | nw.                           | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 31.8                          | +0.2                       | 66              | 21    | 10      | 31    | 32                    | 6.39                      | +2.21                      | 1.87                  | 12.1                       | 13                             | 7      | 6           | 18      | nw.                           | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 31.4                          | +1.5                       | 54              | 21    | 15      | 18    | 25                    | 5.44                      | +1.59                      | 1.68                  | 10.9                       | 14                             | 6      | 7           | 18      | nw.                           | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 33.6                          | +1.5                       | 66              | 21    | 10      | 31    | 32                    | 4.84                      | +1.17                      | 1.87                  | 6.8                        | 12                             | 7      | 7           | 17      | nw.                           |                           |
| For the State.....                          |                 |                  |                          | 30.1                          | +0.2                       | 66              | 21    | -14     | 31    | 44                    | 5.22                      | +1.57                      | 2.83                  | 16.6                       | 12                             | 9      | 7           | 15      | nw.                           |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliffe Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for January, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |     |      |      |     |    |     |      |     |     |     |     |     |      |      |    |     |     |    |     |     |     |      |      |     |    |     |     |     |    |      |      | Total. |
|--------------------------------------------|-----------------|---------------|-----|------|------|-----|----|-----|------|-----|-----|-----|-----|-----|------|------|----|-----|-----|----|-----|-----|-----|------|------|-----|----|-----|-----|-----|----|------|------|--------|
|                                            |                 | 1             | 2   | 3    | 4    | 5   | 6  | 7   | 8    | 9   | 10  | 11  | 12  | 13  | 14   | 15   | 16 | 17  | 18  | 19 | 20  | 21  | 22  | 23   | 24   | 25  | 26 | 27  | 28  | 29  | 30 | 31   |      |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |      |      |     |    |     |      |     |     |     |     |     |      |      |    |     |     |    |     |     |     |      |      |     |    |     |     |     |    |      |      |        |
| Belvidere.....                             | Delaware.....   | .80           |     | .05  | .27  |     |    |     | .66  | .15 |     |     |     |     | .87  |      |    |     |     |    |     | .36 |     |      | 1.82 |     |    |     | .40 |     |    |      | 5.38 |        |
| Charlotteburg.....                         | Passaic.....    | 1.71          |     | .40  |      |     |    |     | .68  | .23 |     |     | .20 |     | 1.01 |      |    |     |     |    |     | .89 |     |      | .54  |     |    |     | .25 |     |    |      | 5.91 |        |
| Culvers Lake.....                          | Delaware.....   | 1.25          |     | .01  | .29  |     | T. | T.  | .60  | .15 | T.  |     | .16 |     | .55  | .15  | T. |     | T.  |    |     | .30 | .41 |      | .39  | .42 |    |     | .25 | .10 |    | T.   | 5.03 |        |
| Dover.....                                 | Passaic.....    | 1.80          |     | .30  | .15  |     |    |     | .50  | .20 |     |     | .15 |     | 1.00 |      |    |     |     |    | *   | .90 |     |      | .50  |     |    |     | .30 |     |    |      | 5.80 |        |
| Layton.....                                | Delaware.....   | 1.15          |     | *    | .26  |     | T. | T.  | .73  | *   | .17 |     | .12 |     | *    | .87  | T. |     |     |    |     | .32 | .34 |      | *    | .82 |    |     | *   | .32 |    |      | 5.10 |        |
| Newton.....                                | Delaware.....   | 1.15          |     | .05  | .21  |     | T. | T.  | .48  | .22 | .04 |     | T.  |     | .52  | T.   | T. |     |     |    | T.  | .33 | .43 |      | .73  |     |    |     | .13 |     |    |      | 4.29 |        |
| Phillipsburg.....                          | do.....         | .54           |     | .08  | .48  |     |    |     | .44  | .21 |     |     |     |     | .59  |      |    |     |     |    | .17 | .34 |     |      | .83  |     |    |     | .42 |     |    |      | 4.10 |        |
| Sussex.....                                | Hudson.....     | 1.15          |     | .02  | .23  |     | T. | .02 | .52  | .15 |     |     | .09 |     | .61  | .18  | T. |     |     |    |     | .29 | .39 |      | .27  | .28 |    |     | .24 | .02 |    | T.   | 4.46 |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |      |      |     |    |     |      |     |     |     |     |     |      |      |    |     |     |    |     |     |     |      |      |     |    |     |     |     |    |      |      |        |
| Bergen Point.....                          | Coast.....      | 1.53          |     | .33  | .32  |     |    | T.  | .34  | .19 |     |     | .08 |     | .76  |      |    |     |     |    | .10 | .19 | .63 |      | .73  |     |    |     | .26 |     |    | .07  | 5.53 |        |
| Boonton   .....                            | Passaic.....    | .79           | .70 |      | .36  |     |    |     | .30  | .05 | .17 |     | .15 |     | .86  |      |    |     |     |    |     | .38 | .51 |      |      | .43 |    |     | .02 | .14 |    |      | 4.86 |        |
| Chatham  .....                             | do.....         | .62           | .93 |      | .62  |     |    |     | .24  | .06 | .30 |     | .06 | T.  | T.   | .88  |    |     |     |    |     | .43 | .71 |      |      | .62 |    |     | .06 | .36 |    |      | 5.89 |        |
| Elizabeth.....                             | Coast.....      | 1.31          |     | *    | .85  |     |    |     | .45  | .17 |     |     | .08 |     | *    | .90  |    |     |     |    | *   | .32 | .60 |      | .65  |     |    |     | *   | .35 |    | T.   | 5.68 |        |
| Flemington.....                            | Raritan.....    | 1.21          |     | .02  | .50  |     |    | T.  | .25  | .19 | T.  |     | .08 |     | .50  | .18  |    |     |     |    |     | .17 | .57 |      | .56  |     |    |     | .35 |     |    | T.   | 4.58 |        |
| Highwood.....                              | Hackensack..... | 1.37          |     | .80  |      |     |    |     | .50  | .28 |     |     | .24 |     | .70  |      |    |     |     |    | .50 | .66 |     | 1.10 |      |     |    | .25 |     |     |    | 6.40 |      |        |
| Jersey City.....                           | Coast.....      | 1.60          |     | .17  | .60  |     | T. | .03 | .40  | .25 |     |     | .10 |     | .85  | .02  | T. |     | T.  |    | .12 | .22 | .67 |      | .85  |     |    |     | .36 |     |    | T.   | 6.24 |        |
| Lambertville.....                          | Delaware.....   | 1.18          |     | .04  | .21  |     |    | T.  | .53  | .17 | .02 |     | T.  |     | .21  | .10  |    |     |     |    |     | .12 | .56 |      | .85  | .07 | T. |     | .25 |     |    | T.   | 4.31 |        |
| Little Falls.    .....                     | Passaic.....    | .96           | .33 |      | .96  |     |    |     | .42  | .03 | .21 |     | .17 |     | *    | .82  |    |     |     |    | *   | .43 | .57 |      | *    | .79 |    |     | .05 | .22 |    |      | 5.96 |        |
| Newark**.....                              | Coast.....      | 1.89          |     | .64  | .25  |     |    | *   | .39  | .36 |     |     | .13 |     | .65  |      |    |     |     |    | .44 | .56 | .37 |      | .96  | .10 |    |     | .33 |     |    |      | 7.07 |        |
| New Brunswick.....                         | Raritan.....    | 1.36          |     | .07  | .60  |     |    | T.  | .25  | .13 | .01 |     | T.  |     | .30  | .15  |    |     |     |    | .29 | .37 |     | .61  | .22  |     |    | .24 |     |     |    | T.   | 4.60 |        |
| New Milford.....                           | Hackensack..... | 1.59          |     | .32  |      |     |    |     | .05  |     |     |     | .16 |     | .44  |      |    |     |     |    | .58 | .24 | .42 |      | .61  | .07 |    |     | .24 |     |    |      | 4.72 |        |
| Paterson.....                              | Passaic.....    | 1.30          |     | .11  | .37  |     | T. | T.  | .40  | .20 |     | T.  | .10 |     | .78  | .02  | T. |     | T.  |    | .02 | .46 | .47 |      | .56  | .18 |    |     | .18 | .02 |    | T.   | 5.17 |        |
| Plainfield.....                            | Raritan.....    | 1.40          |     | *    | .60  |     |    | T.  | .35  | .28 |     |     | .08 |     | .71  |      | T. |     |     |    | .12 | .21 | .65 |      | .88  | .03 |    |     | .36 |     |    | T.   | 5.67 |        |
| Ridgefield**.....                          | Hackensack..... | 1.38          |     | *    | .69  |     | T. | T.  | .36  | .17 | .38 |     | .08 |     | *    | 1.40 | T. |     | T.  |    | *   | .40 | .80 |      | .40  | .88 |    |     | .32 |     |    | T.   | 7.26 |        |
| Somerville.....                            | Raritan.....    | 1.23          |     | .50  |      |     |    |     | .22  |     |     |     | .10 |     | .80  |      |    |     |     |    |     | *   | .35 |      | .34  | .19 |    |     | .40 |     |    |      | 5.88 |        |
| South Orange.....                          | Rahway.....     | 1.40          |     | *    | .58  |     |    | T.  | .41  | .22 |     |     | .06 |     | .80  |      |    |     |     |    | .42 | .08 | T.  | 1.42 |      |     |    | .49 |     |     |    | T.   | 5.88 |        |
| Woodcliff Lake.....                        | Hackensack..... | 1.29          |     | .18  |      |     |    |     | .40  |     |     |     | .20 |     | .28  |      |    |     |     |    | .45 | .24 | .23 |      | .26  | .10 |    |     | *   |     |    |      | 5.97 |        |
| New York, N. Y***.....                     | Coast.....      | 1.48          |     | .68  | .10  |     | T. | .02 | .36  | .22 |     | .02 | .07 |     | .82  | .06  | T. |     | T.  |    | .37 | .07 | .56 |      | .78  |     |    |     | .36 |     |    | T.   | 5.97 |        |
| <i>The Southern Interior.</i>              |                 |               |     |      |      |     |    |     |      |     |     |     |     |     |      |      |    |     |     |    |     |     |     |      |      |     |    |     |     |     |    |      |      |        |
| Belle Plain.....                           | Tuckahoe.....   | 1.05          |     | .25  | .60  |     |    | *   | 1.05 |     |     |     |     |     | T.   |      |    |     |     |    | *   | .23 | .10 |      | .75  |     |    |     | .34 | T.  |    |      | 4.37 |        |
| Bridgeton.....                             | Coast.....      | 2.00          |     | *    | .53  |     |    | *   | 1.25 | .10 |     |     |     |     | *    | .25  |    |     |     |    | *   | .25 | .06 |      | .70  |     |    |     | .35 |     |    |      | 5.49 |        |
| Burlington.....                            | Delaware.....   | 1.40          |     | *    | .42  |     |    | *   | 1.10 | .30 | .03 |     |     |     | *    | .20  |    | T.  |     |    | *   | .30 | .18 |      | .83  | .20 |    |     | T.  |     |    |      | 4.96 |        |
| Camp Dix   .....                           | Delaware.....   | .63           |     | *    | .50  |     |    | *   | .94  | .40 |     |     |     |     | *    | .23  |    |     |     |    |     | .32 | .06 |      | .63  |     |    |     | .28 |     |    |      | 3.99 |        |
| Hammononton.....                           | Mullica.....    | 2.05          |     | .78  | .21  |     |    | *   | .57  |     |     |     |     |     | T.   | .17  |    | .01 |     |    | *   | .37 |     | *    | .63  |     |    |     | .28 |     |    |      | 5.07 |        |
| Hightstown.....                            | Raritan.....    | 1.70          |     | .20  | .62  |     |    | T.  | .30  | .55 |     |     | .20 | .18 |      |      |    |     |     |    | .32 | .32 |     | .68  | .16  |     |    | .26 |     |     |    |      | 5.49 |        |
| Imlaystown.....                            | Delaware.....   | 1.75          |     | .09  | .35  | .05 |    | .04 | .56  | .29 | .13 |     |     |     | .31  | .04  |    |     |     |    | *   | .48 |     | .52  | .18  |     |    | .09 |     |     |    |      | 4.88 |        |
| Indian Mills.....                          | Mullica.....    | 2.78          |     | .14  | .92  |     |    | .03 | 1.10 | .19 | .10 |     |     |     | T.   | .10  |    |     |     |    |     | .35 | .05 |      | .60  | .10 |    |     | .32 |     |    |      | 6.78 |        |
| Lakewood.....                              | Metedeconk..... | 1.45          |     | .45  | .63  |     |    | .08 | .75  | .40 |     |     | T.  |     | .12  | .08  |    |     |     |    | .04 | .36 | .06 |      | .90  | .06 |    |     | .36 |     |    |      | 5.74 |        |
| Lumberton.....                             | Delaware.....   | 1.77          |     | .13  | .91  |     |    | .05 | .91  | .36 |     |     |     |     | T.   | .11  |    |     |     |    |     | .30 | .05 |      | .30  | .05 |    |     | .27 |     |    |      | 5.21 |        |
| Moorestown.....                            | Delaware.....   | 1.80          |     | *    | .35  |     |    | *   | 1.10 | .33 |     |     |     |     | *    | .15  |    |     |     |    |     | *   | .35 |      | .85  |     |    |     | .25 |     |    |      | 5.18 |        |
| Northfield.....                            | Coast.....      | .66           |     | .46  | .55  |     |    | .01 | .71  | .05 | T.  |     |     |     | .05  | .06  |    |     |     |    | .34 | .13 | .08 |      | .57  |     |    | .29 |     |     |    | 3.96 |      |        |
| Pleasantville.....                         | Coast.....      | .66           |     | .07  | .33  |     |    | .02 | .84  | .03 | .02 |     |     |     | .10  | T.   |    | .01 |     |    | .43 | .08 | .06 |      | .71  |     |    | .05 |     |     |    |      | 3.41 |        |
| Trenton***.....                            | Delaware.....   | 1.02          |     | .46  |      | T.  |    | .01 | .45  | .19 | T.  |     | T.  |     | .15  | .09  | T. |     | .01 |    | .25 | .04 | .40 |      | .73  |     |    | T.  | .34 |     |    | T.   | 4.13 |        |
| Tuckerton.....                             | Coast.....      |               |     |      |      |     |    |     |      |     |     |     |     |     |      |      |    |     |     |    |     | .27 | .14 |      | .74  | .09 |    |     | .13 | .21 |    |      | 7.03 |        |
| Vineland.....                              | Maurice.....    | 2.83          |     | *    | 1.01 |     |    |     | 1.35 | .06 |     |     |     |     | .05  | .15  |    |     |     |    |     |     | .14 |      | .74  | .09 |    |     | .13 | .21 |    |      | 7.03 |        |
| Philadelphia, Pa.....                      | Delaware.....   | 1.20          |     | .17  | .08  | T.  |    | .01 | 1.20 | .19 | T.  |     |     |     | .14  | .02  | T. |     |     |    | .24 | T.  | .14 |      | 1.10 |     | T. | T.  | .29 |     |    | T.   | 4.78 |        |
| <i>The Sea Coast.</i>                      |                 |               |     |      |      |     |    |     |      |     |     |     |     |     |      |      |    |     |     |    |     |     |     |      |      |     |    |     |     |     |    |      |      |        |
| Asbury Park.....                           | Coast.....      | 1.02          |     | .72  | .02  |     |    | .05 | .50  | .41 |     | .02 |     |     | *    | .28  |    |     |     |    |     | .52 |     | .10  |      | .62 |    |     | .60 |     |    | T.   | 4.86 |        |
| Atlantic City***.....                      | do.....         | .49           |     | .91  | .13  |     |    | T.  | .69  | .05 | T.  |     |     |     | .09  |      | T. |     | .02 |    |     | .78 |     | .15  |      | .46 |    |     | .31 |     |    | T.   | 4.08 |        |
| Cape May City.....                         | do.....         | .64           |     | .35  |      |     |    |     | .50  | T.  | T.  |     |     |     | .04  | .02  | T. |     |     |    | .23 | .11 |     | .65  |      |     |    | .15 |     |     |    | T.   | 3.44 |        |
| Long Branch**.....                         | do.....         | 1.87          |     | 1.09 | .03  |     |    | .04 | .56  | .40 |     | .02 |     |     | .28  | .10  | T. |     |     |    | .49 |     | .08 |      | 1.08 |     |    | .35 |     |     |    | T.   | 6.39 |        |
| Sandy Hook***.....                         | do.....         | 1.68          |     | .66  | .18  |     |    | .01 | .24  | .37 |     | T.  | .02 |     | .37  | .07  | T. |     |     |    | .40 | .08 | .20 |      | .97  |     |    | .19 |     |     |    | T.   | 5.44 |        |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.  
\*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours.  
§ Incomplete or missing. \* Precipitation included in the next following measurement.  
\*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. | Sun-<br>shine                              |                                            |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity.<br>per cent. at 8 a. m. | Relative humidity.<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.10         | 30.82    | 23    | 29.44   | 1     | 20               | 72              | se.        | 24        | 80                                         | 74                                         | 40                                  |
| Cape May City.....    | 30.13         | 30.79    | 23    | 29.61   | 9     | 10               | 41              | s.         | 1         | 80                                         | 78                                         | .....                               |
| Long Branch.....      |               |          |       |         |       |                  | 52              | e.         | 8         |                                            |                                            |                                     |
| Newark.....           |               |          |       |         |       |                  |                 |            |           | 70*                                        | 67†                                        | 47                                  |
| New York, N. Y.....   | 30.07         | 30.82    | 23    | 29.42   | 1     | 20               | 70              | nw.        | 13        | 70                                         | 68                                         | 42                                  |
| Philadelphia, Pa..... | 30.10         | 30.85    | 23    | 29.54   | 1     | 11               | 34              | nw.        | 1         | 72                                         | 64                                         | 34                                  |
| Ridgefield.....       | 30.07         | 30.81    | 23    | 29.41   | 1     |                  |                 |            |           |                                            |                                            |                                     |
| Sandy Hook.....       | 30.06         | 30.83    | 23    | 29.44   | 1     | 18               | 50              | ne.        | 8         | 76                                         | 69                                         | 40                                  |
| Trenton.....          | 30.08         | 30.82    | 23    | 29.46   | 1     | 12               | 44              | nw.        | 1         | 72                                         | 71                                         | 42                                  |



§§ Instruments are read in the morning; the maximum temperature then read is charged



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVIII.

FEBRUARY, 1923.

No. 2.

## GENERAL SUMMARY.

It was not commonly appreciated that February of 1923 was the coldest February since that of 1914, and that there have been but eight colder, since 1885. There was no particularly intense cold during the month, but the record was the result of sustained moderate cold. From central districts northward there was hardly a day wherein the temperature was not at sometime below freezing. The highest temperature at any station, 56°, was much lower than usually occurs, the high extreme more often being in the sixties, and sometimes in the seventies. There were a few days at the commencement and the close of the month and on the 9th and 13th when temperatures were above normal, but at other times they were subnormal.

Precipitation occurred generally on the 1st, 3d, 6th, 7th, 10th, 13th, 14th, 20th, and the 3 closing days of the month. There were seven to ten days of snowfall, and snow remained very persistently on the ground over the northern half of the State throughout the month. Sleighing was continuous in nearly all northern regions. The ice harvest was somewhat light and uncertain in central and southern counties, although an adequate supply was secured in nearly all instances.

An area of low pressure, passing this region the night of the 13th-14th, was of somewhat convectional characteristics, and thunder and hail were reported in some districts. There may be some uncertainty as to whether it was hail or sleet, but general atmospheric conditions were somewhere indicative of the possibility of hail.

Storm winds were not usually prevalent, and storm warnings were displayed along the coast on the 2d, 5th, 6th, 12th, 14th, 15th and 17th.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 26.1°, which was 3.6° below the normal. The highest temperature was 56° at Indian Mills on the 9th, and the lowest, 12° below zero at Culvers Lake on the 8th. The greatest daily range of temperature was 48° at Sussex on the 8th. The highest monthly mean was 31.0° at Vineland, and the lowest, 21.0° at Boonton.

The temperature departure from the normal for the year 1923 to date, by sections, is: The Highlands, -3.8°; Red Sandstone Plain, -5.0; Southern Interior, -1.6°; Sea Coast, -2.1°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 45 stations, was 2.58 inches, which was 1.03 inches below the normal. The greatest monthly precipitation was 3.74 inches at Tuckerton, and the least, 1.51 inches at Sussex. The average total snowfall was 13.8 inches, which was 3.6 inches above the normal; this average depth ranged from 18.3 inches in the Highlands to 9.4 inches in the Southern Interior. The greatest precipitation accumulated in any 24 consecutive hours was 1.56 inches at Northfield on the 13th. The average number of days on which 0.01 inch or more of precipitation fell was 12, which was 3 more than the normal.

The precipitation accumulated departure from the normal for the year 1923 to date, by sections, is: The Highlands, +0.11 inch; Red Sandstone Plain, +0.28 inch; Southern Interior, +1.10 inches; Sea Coast, +0.44 inch.

## WIND.

The prevailing wind direction was from the northwest, with a velocity of 14 miles per hour, which was normal. The highest wind velocity, sustained for 5 consecutive minutes, was 64 miles per hour from the west at Sandy Hook on the 14th. High winds were noted also on the 6th, 15th, 23d, and 24th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 10, which was 1 less than the normal; partly cloudy days, 8, or normal; cloudy days, 10, which was 1 more than the normal. The per cent of possible sunshine was 46, which was 10 per cent below the normal.

## MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.14 inches, which was 0.04 inch above the normal. The highest reading was 30.62 inches at Sandy Hook and Trenton on the 6th, and the lowest, 29.58 inches at Trenton on the 3d.

The mean stage of the Delaware River at Phillipsburg was 2.3 feet, and the highest stage was 3.0 feet on the 1st and 4th. At Trenton the river was frozen.

Dense fog occurred on the 1st, 2d, 3d, 13th, 14th, 27th, and 28th. Sleet was observed at a few stations on the 10th, 12th, 13th, 14th, 26th, and 28th.

A solar halo was observed on the 2d, and a lunar halo on the 28th.

A thunderstorm was reported at Sussex on the night of the 13th-14th. Hail was reported at Newton and Sussex on the night of the 13th-14th.

## COMPARATIVE DATA FOR FEBRUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 23.9         | 54       | -2      | 3.93           | 5.85      | 1.44   | .....        | .....          | .....   | .....                  |
| 1886..... | 28.9         | 64       | -10     | 5.42           | 8.00      | 4.13   | .....        | .....          | .....   | .....                  |
| 1887..... | 33.9         | 69       | 6       | 5.24           | 6.74      | 4.13   | .....        | .....          | 13      | 13                     |
| 1888..... | 30.6         | 60       | -5      | 3.53           | 6.01      | 2.04   | .....        | .....          | 9       | 8                      |
| 1889..... | 27.7         | 53       | -3      | 2.49           | 3.80      | 1.65   | .....        | .....          | 9       | 8                      |
| 1890..... | 33.9         | 76       | 14      | 4.17           | 5.32      | 2.43   | .....        | .....          | 12      | 10                     |
| 1891..... | 38.0         | 71       | 1       | 5.11           | 7.20      | 3.70   | 6            | 9              | 13      | 14                     |
| 1892..... | 33.6         | 58       | 7       | 1.63           | 3.62      | 0.67   | 7            | 9              | 13      | 7                      |
| 1893..... | 30.1         | 63       | -1      | 5.73           | 8.90      | 3.14   | 7            | 8              | 13      | 11                     |
| 1894..... | 29.7         | 62       | -11     | 4.42           | 6.17      | 3.25   | 9            | 8              | 11      | 11                     |
| 1895..... | 23.6         | 57       | -12     | 1.28           | 2.34      | 0.55   | 13           | 9              | 6       | 5                      |
| 1896..... | 32.1         | 62       | -12     | 6.77           | 10.06     | 4.82   | 9            | 9              | 11      | 12                     |
| 1897..... | 32.5         | 59       | -6      | 3.61           | 6.37      | 2.38   | 8            | 10             | 10      | 8                      |
| 1898..... | 32.7         | 65       | -15     | 3.48           | 5.45      | 1.55   | 12           | 7              | 9       | 9                      |
| 1899..... | 25.8         | 60       | -17     | 6.06           | 8.77      | 3.78   | 10           | 6              | 12      | 15                     |
| 1900..... | 31.0         | 69       | -6      | 5.30           | 7.88      | 3.27   | 9            | 9              | 10      | 10                     |
| 1901..... | 25.4         | 52       | -6      | 0.94           | 1.65      | 0.69   | 15           | 9              | 4       | 4                      |
| 1902..... | 27.4         | 62       | -7      | 6.24           | 8.44      | 4.29   | 12           | 6              | 10      | 9                      |
| 1903..... | 33.7         | 70       | -16     | 4.87           | 6.60      | 3.74   | 12           | 8              | 8       | 10                     |
| 1904..... | 24.8         | 65       | -16     | 2.45           | 3.09      | 1.36   | 13           | 8              | 8       | 8                      |
| 1905..... | 23.4         | 53       | -18     | 2.53           | 3.96      | 0.70   | 14           | 7              | 7       | 7                      |
| 1906..... | 30.9         | 64       | -12     | 2.58           | 3.85      | 1.77   | 14           | 7              | 7       | 7                      |
| 1907..... | 23.6         | 55       | -22     | 2.67           | 3.90      | 1.82   | 14           | 7              | 7       | 8                      |
| 1908..... | 28.1         | 65       | -17     | 4.79           | 7.44      | 2.85   | 10           | 10             | 9       | 9                      |
| 1909..... | 37.8         | 72       | -2      | 4.96           | 6.78      | 3.55   | 6            | 10             | 12      | 12                     |
| 1910..... | 30.5         | 69       | -11     | 3.08           | 4.81      | 1.06   | 10           | 9              | 9       | 10                     |
| 1911..... | 30.9         | 67       | -12     | 2.78           | 4.06      | 1.76   | 8            | 7              | 13      | 11                     |
| 1912..... | 27.7         | 61       | -14     | 2.49           | 3.12      | 1.68   | 11           | 12             | 6       | 5                      |
| 1913..... | 30.6         | 70       | -5      | 2.49           | 3.21      | 1.48   | 16           | 6              | 6       | 7                      |
| 1914..... | 25.9         | 67       | -17     | 2.85           | 4.94      | 1.89   | 12           | 7              | 9       | 9                      |
| 1915..... | 35.7         | 75       | 2       | 5.37           | 7.28      | 2.97   | 11           | 6              | 11      | 8                      |
| 1916..... | 28.1         | 63       | -18     | 4.21           | 6.17      | 2.84   | 10           | 6              | 13      | 11                     |
| 1917..... | 28.1         | 62       | -17     | 1.95           | 2.80      | 0.92   | 10           | 9              | 9       | 11                     |
| 1918..... | 29.0         | 67       | -23     | 2.08           | 3.41      | 1.03   | 12           | 8              | 8       | 7                      |
| 1919..... | 33.6         | 65       | 4       | 3.39           | 6.48      | 1.37   | 15           | 4              | 9       | 10                     |
| 1920..... | 27.9         | 54       | -25     | 4.20           | 7.20      | 2.39   | 11           | 8              | 10      | 11                     |
| 1921..... | 34.0         | 71       | -12     | 3.81           | 5.82      | 2.58   | 10           | 8              | 10      | 10                     |
| 1922..... | 33.6         | 73       | -18     | 2.94           | 4.60      | 1.80   | 10           | 8              | 10      | 10                     |
| 1923..... | 26.1         | 56       | -12     | 2.58           | 3.74      | 1.51   | 10           | 8              | 10      | 12                     |



## Climatological Data for February, 1923.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                                                                                                                          |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                                                                                                                  |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289              | 31                       | 23.6                          | -3.5                       | 45       | 2     | -3      | 8     | 38                        | 2.46   | -1.38                      | 0.98                  | 15.8                       | 9                              | 11     | 8           | 9                             | .....      | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                   | Passaic.....    | 719              | 30                       | 22.2                          | -3.4                       | 44       | 2     | -8      | 8     | 45                        | 2.19   | -1.83                      | 0.70                  | 18.5                       | 13                             | 9      | 11          | 8                             | w.         |                                                                                                                          |
| Culvers Lake†.....                   | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | -12     | 8     | .....                     | 2.03   | -1.03                      | 0.61                  | 21.0                       | 12                             | 10     | 9           | 9                             | nw.        |                                                                                                                          |
| Dover.....                           | Morris.....     | 600              | 38                       | 22.2                          | -4.0                       | 44       | 2     | 0       | 8     | 36                        | 3.18   | -0.85                      | 1.00                  | 17.5                       | 11                             | 3      | 15          | 10                            | .....      |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480              | 21                       | 21.3                          | -2.3                       | 45       | 27    | -9      | 18    | 46                        | 1.56   | -1.15                      | 0.54                  | 23.7                       | 14                             | 10     | 5           | 13                            | w.         | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                          | Sussex.....     | 769              | 39                       | 22.8                          | -3.7                       | 42       | 2†    | 1       | 24    | 27                        | 2.02   | -1.54                      | 0.62                  | 17.5                       | 15                             | 7      | 11          | 10                            | nw.        |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363              | 39                       | 25.7 <sup>b</sup>             | -2.2                       | 51       | 25    | 0       | 8     | 36                        | 2.34   | -1.80                      | 0.74                  | 14.0                       | 11                             | 7      | 15          | 6                             | .....      |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442              | 28                       | 22.2                          | -3.2                       | 46       | 25    | -10     | 8     | 48                        | 1.51   | -1.87                      | 0.38                  | 18.5                       | 10                             | 4      | 11          | 13                            | nw.        |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 22.9                          | -3.2                       | 51       | 25    | -12     | 8     | 48                        | 2.16   | -1.37                      | 1.00                  | 18.3                       | 12                             | 8      | 10          | 10                            | nw.        |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Bergen Point†.....                   | Hudson.....     | 37               | 25                       | 27.0                          | -2.4                       | 48       | 3     | 8       | 18    | 28                        | 1.99   | -1.99                      | 0.77                  | 17.0                       | 11                             | 4      | 16          | 8                             | nw.        | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                         | Morris.....     | 400              | 32                       | 21.0                          | -6.1                       | 45       | 2     | -3      | 8     | 41                        | 1.88   | -2.09                      | 0.63                  | .....                      | 11                             | 12     | 2           | 14                            | nw.        |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.51   | -0.92                      | 0.86                  | .....                      | 11                             | 12     | 3           | 13                            | .....      |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45               | 43                       | 27.0                          | -3.5                       | 45       | 2†    | 5       | 8     | 32                        | 2.32   | -1.85                      | 0.80                  | 15.5                       | 13                             | 7      | 12          | 9                             | nw.        |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140              | 36                       | 25.6                          | -3.2                       | 47       | 25    | -5      | 8     | 42                        | 2.68   | -0.86                      | 0.80                  | 14.5                       | 14                             | 11     | 8           | 9                             | w.         | Hiram E. Deats.<br>Grant McQuaid.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                            |
| Highwood.....                        | Bergen.....     | 90               | 34                       | 23.8                          | -4.6                       | 42       | 9†    | 2       | 8     | 33                        | 2.43   | -1.83                      | 0.78                  | 20.5                       | 9                              | 13     | 9           | 6                             | nw.        |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10               | 24                       | 27.6                          | -3.0                       | 46       | 27    | 7       | 18    | 22                        | 2.47   | -1.25                      | 0.80                  | 16.8                       | 12                             | 12     | 8           | 8                             | nw.        |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370              | 35                       | 25.5                          | -4.9                       | 43       | 9     | 5       | 24    | 20                        | 1.88   | -1.60                      | 0.81                  | 10.7                       | 13                             | 11     | 5           | 12                            | nw.        |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180              | 19                       | 23.0 <sup>a</sup>             | -6.6                       | 44       | 2†    | 1       | 8     | 38                        | 2.40   | -1.07                      | 0.76                  | 14.5                       | 10                             | 10     | 8           | 10                            | nw.        | Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                        |
| Newark.....                          | Essex.....      | 159              | 80                       | 25.3                          | -3.8                       | 43       | 9†    | 8       | 18    | 24                        | 2.37   | -1.25                      | 0.88                  | 15.7                       | 12                             | 8      | 12          | 8                             | nw.        |                                                                                                                          |
| New Brunswick.....                   | Middlesex.....  | 110              | 69                       | 26.0                          | -4.8                       | 44       | 2†    | 0       | 8     | 37                        | 2.00   | -1.62                      | 0.92                  | 9.3                        | 11                             | 12     | 9           | 7                             | n.         |                                                                                                                          |
| New Milford†.....                    | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | 0.74                  | .....                      | .....                          | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80               | 51                       | 26.8                          | -3.4                       | 45       | 2     | 7       | 18    | 30                        | 2.21   | -2.00                      | 0.84                  | 19.0                       | 14                             | 2      | 1           | 25                            | nw.        | Marion T. Probert.<br>E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.                                             |
| Plainfield.....                      | Union.....      | 120              | 34                       | 24.8                          | -3.9                       | 46       | 2     | -2      | 8     | 38                        | 2.35   | -1.61                      | 0.93                  | 16.3                       | 13                             | 5      | 14          | 9                             | nw.        |                                                                                                                          |
| Ridgefield†.....                     | Bergen.....     | 70               | 7                        | 24.1                          | .....                      | 46       | 9     | 5       | 18    | 29                        | 2.81   | .....                      | 0.80                  | 22.0                       | 13                             | 7      | 8           | 13                            | nw.        |                                                                                                                          |
| Somerville.....                      | Somerset.....   | 70               | 39                       | 25.2                          | -3.7                       | 45       | 2†    | -4      | 8     | 40                        | 2.58   | -1.20                      | 0.45                  | 17.0                       | 11                             | 12     | 7           | 9                             | nw.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200              | 52                       | 24.8                          | -4.2                       | 43       | 3†    | 6       | 18    | 28                        | 2.98   | -0.95                      | 1.03                  | 24.5                       | 11                             | 11     | 9           | 8                             | n.         | Wm. H. Meeder.<br>Hackensack Water Co.<br>U. S. Weather Bureau.                                                          |
| Woodcliffe Lake†.....                | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | 0.40                  | .....                      | .....                          | .....  | .....       | .....                         | .....      |                                                                                                                          |
| New York, N. Y.....                  | Bergen.....     | 365              | 52                       | 27.1                          | -4.2                       | 46       | 27    | 7       | 18    | 22                        | 2.33   | -1.41                      | 0.73                  | 17.4                       | 14                             | 3      | 13          | 12                            | nw.        |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 25.2                          | -4.2                       | 48       | 3     | -5      | 8     | 42                        | 2.37   | -1.47                      | 1.03                  | 16.7                       | 14                             | 9      | 8           | 11                            | nw.        |                                                                                                                          |
| The Southern Interior.               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belle Plain.....                     | Cape May.....   | 30               | 28                       | 29.3                          | -2.2                       | 53       | 3     | 0       | 8     | 35                        | 3.10   | -0.49                      | 1.41                  | 6.9                        | 11                             | 11     | 8           | 9                             | nw.        | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                       | Cumberland..... | 30               | 41                       | 30.0                          | -3.7                       | 50       | 14†   | 7       | 8     | 38                        | 2.70   | -1.12                      | 1.50                  | 5.5                        | 8                              | 12     | 2           | 14                            | w.         |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12               | 36                       | 26.8 <sup>a</sup>             | -4.5                       | 43       | 25    | 6       | 8†    | 29                        | 2.84   | -0.66                      | 1.15                  | 9.8                        | 12                             | 16     | 1           | 11                            | nw.        |                                                                                                                          |
| Camp Dix.....                        | Burlington..... | 127              | 4                        | 27.3                          | .....                      | 49       | 26    | 2       | 8†    | 36                        | 2.87   | .....                      | 1.27                  | .....                      | 11                             | 7      | 18          | 3                             | nw.        |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.22   | -0.19                      | 1.17                  | 11.5                       | 10                             | 13     | 6           | 9                             | w.         | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                      | Mercer.....     | 120              | 30                       | 25.6                          | -3.8                       | 46       | 9     | -3      | 12    | 37                        | 2.82   | -0.78                      | 1.13                  | 11.5                       | 14                             | 14     | 5           | 9                             | nw.        |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115              | 34                       | .....                         | .....                      | .....    | ..... | -5      | 8     | .....                     | 2.86   | -0.68                      | 1.09                  | 10.0                       | 13                             | 14     | 3           | 11                            | w.         |                                                                                                                          |
| Indian Mills†.....                   | Burlington..... | 76               | 33                       | 28.4                          | -3.4                       | 56       | 9     | -3      | 8     | 42                        | 3.02   | -0.43                      | 1.30                  | 9.2                        | 11                             | 7      | 9           | 12                            | nw.        |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54               | 18                       | 27.2                          | -2.5                       | 47       | 9     | -2      | 8     | 43                        | 2.89   | -0.68                      | 1.20                  | 7.5                        | 13                             | 10     | 3           | 15                            | nw.        | R. W. Holman.<br>Ralph B. Sterner.<br>Stokes Seed Farms Co.<br>William L. Flick.                                         |
| Lumberton.....                       | Burlington..... | .....            | .....                    | 29.2                          | .....                      | 50       | 25    | 7       | 24    | 26                        | 2.71   | .....                      | 1.23                  | 8.0                        | 12                             | 10     | 9           | 9                             | nw.        |                                                                                                                          |
| Moorestown.....                      | Burlington..... | 75               | 59                       | 29.0                          | -2.3                       | 49       | 25    | 3       | 18    | 34                        | 2.73   | -0.75                      | 1.25                  | 10.5                       | 10                             | 17     | 4           | 7                             | nw.        |                                                                                                                          |
| Northfield†.....                     | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.08   | +0.29                      | 1.56                  | 7.6                        | 11                             | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Pleasantville†.....                  | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.28   | +0.47                      | 1.48                  | 10.0                       | 10                             | 13     | 2           | 13                            | .....      | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Trenton.....                         | Mercer.....     | 190              | 50                       | 26.4                          | -4.3                       | 46       | 9     | 7       | 24    | 26                        | 2.68   | -0.51                      | 1.00                  | 14.1                       | 12                             | 6      | 8           | 14                            | nw.        |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23               | 29                       | 29.3 <sup>c</sup>             | -1.5                       | .....    | ..... | -2      | 8     | .....                     | 3.74   | +0.08                      | .....                 | 10.0                       | 8                              | 13     | 9           | 6                             | nw.        |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109              | 53                       | 31.0                          | -1.5                       | 52       | 25    | 7       | 24    | 28                        | 2.46   | -1.26                      | 1.49                  | .....                      | 11                             | 13     | 4           | 11                            | nw.        |                                                                                                                          |
| Philadelphia, Pa.....                | .....           | 117              | 52                       | 30.0                          | -3.9                       | 51       | 25    | 10      | 24    | 28                        | 2.71   | -0.67                      | 1.25                  | 8.2                        | 13                             | 3      | 11          | 14                            | nw.        |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 28.3                          | -3.0                       | 56       | 9     | -5      | 8     | 43                        | 2.94   | -0.48                      | 1.56                  | 9.4                        | 11                             | 12     | 6           | 10                            | nw.        |                                                                                                                          |
| The Sea Coast.                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22               | 33                       | 28.6                          | -2.8                       | 47       | 9     | 7       | 24    | 26                        | 2.46   | -1.04                      | 1.08                  | 10.0                       | 11                             | 8      | 6           | 14                            | w.         | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16               | 48                       | 30.2                          | -3.4                       | 54       | 3     | 8       | 24    | 25                        | 3.17   | -0.10                      | 1.50                  | 7.4                        | 12                             | 10     | 5           | 13                            | nw.        |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17               | 38                       | 30.7                          | -3.4                       | 52       | 3     | 11      | 24    | 21                        | 2.92   | -0.37                      | 0.93                  | 11.5                       | 11                             | 11     | 4           | 13                            | nw.        |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25               | 15                       | 26.4                          | -4.0                       | 46       | 9     | 8       | 24    | 24                        | 3.02   | -0.89                      | 1.09                  | 14.6                       | 13                             | 4      | 11          | 13                            | nw.        |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22               | 24                       | 26.4                          | -4.2                       | 42       | 9     | 11      | 18    | 20                        | 2.30   | -1.24                      | 0.93                  | 9.6                        | 13                             | 3      | 11          | 14                            | w.         |                                                                                                                          |
| Means and extremes...                |                 |                  |                          | 28.5                          | -3.6                       | 54       | 3     | 7       | 24    | 26                        | 2.77   | -0.73                      | 1.50                  | 10.6                       | 12                             | 7      | 7           | 14                            | nw.        |                                                                                                                          |
| For the State.....                   |                 |                  |                          | 26.1                          | -3.6                       | 56       | 9     | -12     | 8     | 48                        | 2.58   | -1.03                      | 1.56                  | 13.8                       | 12                             | 10     | 8           | 10                            | nw.        |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliffe Lake are Weehawken; Northfield is Pleasantville.



## Daily Precipitation for February, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |     |     |   |     |     |     |   |   |     |     |      |      |      |    |    |    |    |    |     |     |     |     |    |    |    |     |     |     |     |    | Total. |      |
|--------------------------------------------|-----------------|---------------|-----|-----|---|-----|-----|-----|---|---|-----|-----|------|------|------|----|----|----|----|----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|----|--------|------|
|                                            |                 | 1             | 2   | 3   | 4 | 5   | 6   | 7   | 8 | 9 | 10  | 11  | 12   | 13   | 14   | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24 | 25 | 26 | 27  | 28  | 29  | 30  | 31 |        |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |     |   |     |     |     |   |   |     |     |      |      |      |    |    |    |    |    |     |     |     |     |    |    |    |     |     |     |     |    |        |      |
| Belvidere.....                             | Delaware.....   |               |     |     |   |     |     |     |   |   |     |     |      | .98  | .10  |    |    |    |    |    |     | .20 |     |     |    |    |    |     | *   | .27 | .06 |    |        | 2.46 |
| Charlotteburg.....                         | Passaic.....    | .04           | *   | .15 |   |     | *   | .50 |   |   | .14 | .30 |      | *    | .70  |    |    |    |    |    | .11 |     | T.  |     |    |    |    | .13 | *   | .12 |     |    |        | 2.16 |
| Culvers Lake.....                          | Delaware.....   | T.            | .05 | .20 |   |     | T.  | .40 |   |   | .22 | .13 |      | .61  | .12  |    |    |    |    | T. |     | .08 | .02 | T.  |    |    |    | .02 | .05 | .13 |     |    |        | 2.03 |
| Dover.....                                 | Passaic.....    | .20           | .16 |     |   |     | *   | .50 |   |   | .15 | .50 |      | *    | 1.00 |    |    |    |    |    | .15 |     |     |     |    |    |    | T.  | *   | .52 |     |    |        | 3.18 |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |   |     |     |     |   |   |     |     |      |      |      |    |    |    |    |    |     |     |     |     |    |    |    |     |     |     |     |    |        |      |
| Layton.....                                | Delaware.....   |               | .06 | .05 |   |     | *   | .36 |   |   | .21 | .14 |      | .54  | .01  |    |    |    |    |    | *   | .06 | .01 |     |    |    |    | .02 | .09 | .01 |     |    |        | 1.56 |
| Newton.....                                | Delaware.....   | .04           | .04 | .12 |   |     | .10 | .31 |   |   | .19 | .13 |      | .62  | .10  |    |    |    |    | T. |     | .04 | .06 | .02 |    |    |    | .04 | .09 | .12 |     |    |        | 2.02 |
| Phillipsburg.....                          | do.....         |               |     |     |   |     | .60 | .33 |   |   | .13 | .05 | .01  | .74  |      |    |    |    |    |    | .05 |     | .06 |     |    |    |    | .03 | .24 | .10 |     |    |        | 2.34 |
| Sussex.....                                | Hudson.....     | T.            | .07 | .06 |   |     | T.  | .36 |   |   | .17 | .11 |      | .38  | .11  |    |    |    |    |    | .04 | T.  | T.  | T.  |    |    |    | T.  | .10 | .11 |     |    |        | 1.51 |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |     |   |     |     |     |   |   |     |     |      |      |      |    |    |    |    |    |     |     |     |     |    |    |    |     |     |     |     |    |        |      |
| Bergen Point.....                          | Coast.....      | .09           | T.  | .05 |   |     | .18 | .19 |   |   | .20 | .10 |      | .77  | T.   |    |    |    |    |    | .11 |     |     |     |    |    |    | .05 | .14 | .11 |     |    |        | 1.99 |
| Boonton   .....                            | Passaic.....    |               | .05 | .09 |   |     | .25 |     |   |   | .10 | .09 | .06  | .63  | .08  |    |    |    |    |    |     | .11 |     |     |    |    |    | T.  | .37 | .05 |     |    |        | 1.88 |
| Chatham   .....                            | do.....         |               | .10 | .07 |   |     | .34 |     |   |   | .12 | .26 | .17  | .86  | .10  |    |    |    |    |    |     | .14 |     |     |    |    |    |     | .24 | .11 |     |    |        | 2.51 |
| Elizabeth.....                             | Coast.....      | *             | .07 | .06 |   |     | *   | .52 |   |   | .23 | .16 |      | .80  | .05  |    |    |    |    |    | .17 |     |     |     |    |    |    | *   | *   | .26 |     |    |        | 2.32 |
| Flemington.....                            | Raritan.....    | .02           | .06 | .08 |   |     | .20 | .40 |   |   | .30 | .18 |      | .80  | .12  |    |    |    |    | T. | .10 |     | .03 |     |    |    |    | .03 | .23 | .13 |     |    |        | 2.68 |
| Highwood.....                              | Hackensack..... | .10           | T.  |     |   |     | *   | .43 |   |   | .23 | .23 |      | .78  | .10  |    |    |    |    |    | .10 |     |     |     |    |    |    | *   | .31 | .15 |     |    |        | 2.43 |
| Jersey City.....                           | Coast.....      | .08           | .01 | .05 |   |     | .32 | .22 |   |   | .36 | .17 |      | .80  | .01  | T. |    | T. | T. |    | .15 |     | T.  | T.  | T. |    |    | .13 | .10 | .07 |     |    |        | 2.47 |
| Lambertville.....                          | Delaware.....   | .04           | .03 |     |   |     | .09 | .16 |   |   | .16 | .11 |      | .81  | .07  | T. |    | T. |    |    | .06 | .01 | T.  |     |    |    |    | .02 | .24 | .08 |     |    |        | 1.88 |
| Little Falls.                              | Passaic.....    |               | .06 | .07 |   |     | .38 |     |   |   | .17 | .19 |      | .76  | .16  |    |    |    |    |    |     | .12 | T.  |     | T. | T. |    |     | .34 | .15 |     |    |        | 2.40 |
| Newark**.....                              | Coast.....      | .14           |     | .13 |   |     | .33 | .15 |   |   | .25 | .33 | .28  | .38  | .05  |    |    |    |    |    | .18 |     | T.  |     |    |    |    | .04 | T.  | .11 |     |    |        | 2.37 |
| New Brunswick.....                         | Raritan.....    | T.            | .03 | .06 |   |     | T.  | .32 |   |   | .14 | .10 |      | .92  | .05  | T. |    |    |    |    | .10 | T.  | T.  |     |    |    |    | .01 | .18 | .09 |     |    |        | 2.00 |
| New Milford.....                           | Hackensack..... | .04           |     | .08 |   |     | .20 |     |   |   | .05 | .15 |      | .60  | .14  |    |    |    |    |    | .2  |     |     |     |    |    |    |     | .40 | .14 |     |    |        | \$   |
| Paterson.....                              | Passaic.....    | .02           | .03 | .05 |   |     | .05 | .29 |   |   | .17 | .13 |      | .84  | .03  | T. |    |    |    |    | .05 | .07 | T.  | T.  | T. | T. |    | .02 | .31 | .15 |     |    |        | 2.21 |
| Plainfield.....                            | Raritan.....    | .05           | .02 | .06 |   |     | .33 | .12 |   |   | .23 | .15 |      | .93  | .06  | T. |    | T. | T. |    | .12 |     | T.  |     |    |    |    | .01 | .14 | .13 |     |    |        | 2.35 |
| Ridgefield**.....                          | Hackensack..... | *             | .05 | .05 |   |     | *   | .65 |   |   | .18 | .42 | *    | .80  | .07  |    |    |    |    |    | .19 |     | T.  |     |    |    |    | T.  | .20 | .20 |     |    |        | 2.81 |
| Somerville.....                            | Raritan.....    |               |     |     |   |     | .30 | .40 |   |   | .35 | .30 |      | .45  | .08  |    |    |    |    |    | .18 | .12 | .06 |     |    |    |    |     | .23 | .12 |     |    |        | 2.58 |
| South Orange.....                          | Rahway.....     | .40           |     | .10 |   |     | *   | .36 |   |   | .16 | .43 | 1.03 |      |      |    |    |    |    |    | .12 |     |     |     |    |    |    | .10 | .13 | .15 |     |    |        | 2.98 |
| Woodcliff Lake.....                        | Hackensack..... | .09           |     | \$  |   |     | \$  | .10 |   |   | \$  | .10 |      | .40  | .05  |    |    |    |    |    | .08 |     |     |     |    |    |    |     | .05 | .23 | .13 |    |        | \$   |
| New York, N. Y***                          | Coast.....      | .07           | .02 | .06 |   |     | .47 | .03 |   |   | .36 | .16 | .25  | .54  | .01  | T. |    | T. | T. |    | .13 |     | T.  | T.  | T. |    |    | .03 | .12 | .08 |     |    |        | 2.33 |
| <i>The Southern Interior.</i>              |                 |               |     |     |   |     |     |     |   |   |     |     |      |      |      |    |    |    |    |    |     |     |     |     |    |    |    |     |     |     |     |    |        |      |
| Belle Plain.....                           | Tuckahoe.....   | .18           | .03 | T.  |   | .02 |     | .55 |   |   | .12 |     | 1.41 | .04  |      |    |    |    |    |    | .03 |     |     |     |    |    |    | .03 | .68 | .01 |     |    |        | 3.10 |
| Bridgeton.....                             | Coast.....      | .15           |     |     |   | T.  | .35 | *   |   |   | .10 |     | 1.50 | .05  |      |    |    |    | T. |    | .10 |     | T.  |     |    |    |    | .35 | .10 | T.  |     |    |        | 2.70 |
| Burlington.....                            | Delaware.....   | .17           | .08 |     |   |     | *   | .60 |   |   | .02 | .15 |      | 1.15 | .12  |    |    |    |    |    | .10 |     | T.  |     |    |    |    | *   | .39 | .06 |     |    |        | 2.84 |
| Camp Dix   .....                           | Delaware.....   | .12           | .04 |     |   |     | .48 | *   |   |   | .08 | .14 |      | 1.27 | .21  |    |    |    |    |    | .10 |     |     |     |    |    |    | .30 | .06 | .07 |     |    |        | 2.87 |
| Hammonton.....                             | Mullica.....    | T.            |     | .02 |   |     | .42 | .45 |   |   | .09 |     | 1.17 | .13  |      |    |    |    |    |    | .20 |     |     |     |    |    |    | .23 | .32 | .16 |     |    |        | 3.22 |
| Hightstown.....                            | Raritan.....    | .02           | .04 | .05 |   |     | *   | .46 |   |   | .20 | .15 |      | 1.13 | .15  |    |    |    |    |    | *   | .10 |     |     |    |    |    | .10 | .30 | .12 |     |    |        | 2.82 |
| Imlaystown.....                            | Delaware.....   | .04           | .05 | .06 |   |     | *   | .65 |   |   | .05 | .25 |      | 1.09 | .15  |    |    |    |    |    | .11 |     |     |     |    |    |    | .03 | .30 | .08 |     |    |        | 2.86 |
| Indian Mills.....                          | Mullica.....    | .14           |     | .03 |   |     | *   | .63 |   |   | .07 | .12 |      | 1.30 | .15  |    |    |    |    |    | .13 |     |     |     |    |    |    | .04 | .36 | .05 |     |    |        | 3.02 |
| Lakewood.....                              | Metedeconk..... | .05           | .03 | .04 |   |     | .15 | .41 |   |   | .10 | .14 |      | 1.20 | .20  |    |    |    |    |    | .14 |     | T.  |     |    |    |    | .08 | .26 | .09 |     |    |        | 2.89 |
| Lumberton.....                             | Delaware.....   | .12           | T.  | .01 |   |     | .12 | .47 |   |   | .01 | .14 |      | 1.23 | .14  |    |    |    |    |    | .17 |     |     |     |    |    |    | .04 | .23 | .03 |     |    |        | 2.71 |
| Moorestown.....                            | Delaware.....   | .30           |     |     |   |     | .15 | .35 |   |   | .01 | .15 |      | 1.25 | .15  |    |    |    |    |    | .05 |     |     |     |    |    |    | *   | .28 | .04 |     |    |        | 2.73 |
| Northfield.....                            | Coast.....      | .11           | T.  |     |   | .02 | .23 | .23 |   |   | T.  | .14 |      | 1.56 | .03  |    |    |    |    |    | .12 |     |     |     |    |    |    | .04 | .59 | .01 |     |    |        | 3.08 |
| Pleasantville.....                         | Coast.....      | .15           |     |     |   | .05 | .20 | .45 |   |   | T.  | .15 | T.   | 1.48 | .06  |    |    |    |    |    | .15 |     |     |     |    |    |    | .08 | .51 |     |     |    |        | 3.28 |
| Trenton***.....                            | Delaware.....   | .09           | T.  | .04 |   |     | .46 | .08 |   |   | T.  | .12 | .22  | .40  | .75  | T. | T. |    |    |    | .10 |     |     |     |    |    |    | .06 | .27 | .09 |     |    |        | 2.68 |
| Tuckerton.....                             | Coast.....      | .02           |     |     |   |     | .83 | *   |   |   | *   | *   |      | 2.20 | .14  |    |    |    |    |    | .15 |     | T.  |     |    |    |    | *   | .40 |     |     |    |        | 3.74 |
| Vineland.....                              | Maurice.....    | .16           | .02 |     |   |     | *   | *   |   |   | .16 | .12 |      | 1.49 | .10  |    |    |    |    |    | .07 |     |     |     |    |    |    | .04 | .36 |     |     |    |        | 2.46 |
| Philadelphia, Pa.....                      | Delaware.....   | .15           |     | .01 |   |     | .54 | .04 |   |   | T.  | .12 | .14  | .55  | .83  | T. |    |    |    |    | .08 |     | .01 |     |    |    |    | .06 | .15 | .03 |     |    |        | 2.71 |
| <i>The Sea Coast.</i>                      |                 |               |     |     |   |     |     |     |   |   |     |     |      |      |      |    |    |    |    |    |     |     |     |     |    |    |    |     |     |     |     |    |        |      |
| Asbury Park.....                           | Coast.....      | .04           |     | .08 |   |     | .40 |     |   |   | .11 | .12 | *    | 1.08 | .14  |    |    |    |    |    | .08 |     | T.  |     |    |    |    | .28 | .08 | .05 |     |    |        | 2.46 |
| Atlantic City***.....                      | do.....         | .08           | T.  |     |   | .05 | .47 | .11 |   |   | .01 | .14 | .61  | .89  | .02  |    |    |    |    |    | .07 |     | T.  |     |    |    |    | .22 | .50 | T.  |     |    |        | 3.17 |
| Cape May City.....                         | do.....         | .46           |     | .02 |   | .19 | .36 | .09 |   |   | .05 | .01 | .92  |      |      |    |    |    |    |    | .05 |     |     |     |    |    |    | .08 | .69 |     |     |    |        | 2.92 |
| Long Branch**.....                         | do.....         | .02           |     | .08 |   |     | .48 | .17 |   |   | .19 | .28 | .24  | .85  | .11  | T. |    |    |    |    | .27 |     | T.  |     |    |    |    | .08 | .16 | .09 |     |    |        | 3.02 |
| Sandy Hook***.....                         | do.....         | .04           |     | .04 |   |     | .40 | .05 |   |   | .08 | .15 | .16  | .84  | .07  |    |    |    |    |    | .14 |     |     |     |    |    |    | .04 | .20 | .09 |     |    |        | 2.30 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture.                                  |                                            | Sun-<br>shine                      |       |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|--------------------------------------------|--------------------------------------------|------------------------------------|-------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |       |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. |                                            |                                            |                                    | Date. |
| Atlantic City.....    | 30.15         | 30.59    | 12    | 29.64   | 3     | 17               | 50              | nw.        | 14                                         | 79                                         | 72                                 | 44    |
| Cape May City.....    | 30.18         | 30.60    | 12    | 29.67   | 3     | 9                | 36              | nw.        | 15                                         | 82                                         | 75                                 | 40    |
| Long Branch.....      | 30.14         | 30.63    | 12    | 29.62   | 3     | .....            | 48              | nw.        | 14                                         | 77                                         | 66                                 | 40    |
| Newark.....           | 30.12         | 30.61    | 6     | 29.62   | 3     | 17               | 70              | nw.        | 14                                         | 70                                         | 59                                 | 62    |
| New York, N. Y.....   | 30.16         | 30.64    | 6     | 29.63   | 3     | 11               | 34              | nw.        | 15                                         | 74                                         | 65                                 | 45    |
| Philadelphia, Pa..... | 30.12         | 30.60    | 6     | 29.63   | 3     | .....            | .....           | .....      | .....                                      | .....                                      | .....                              | ..... |
| Ridgefield.....       | 30.12         | 30.62    | 6     | 29.60   | 3     | 16               | 64              | w.         | 14                                         | 76                                         | 70                                 | 48    |
| Sandy Hook.....       | 30.12         | 30.62    | 6     | 29.60   | 3     | 16               | 64              | w.         | 14                                         | 76                                         | 70                                 | 48    |
| Trenton.....          | 30.13         | 30.62    | 6     | 29.58   | 3     | 12               | 52              | nw         | 14                                         | 75                                         | 68                                 | 53    |



## Daily Temperatures for February, 1923.

| Stations.                            | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9   | 10 | 11 | 12 | 13 | 14 | 15    | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23    | 24    | 25 | 26    | 27 | 28 | 29    | 30                | 31                | Mean. |
|--------------------------------------|--------------|----|----|----|----|----|----|----|-----|----|----|----|----|----|-------|----|----|----|----|----|----|----|-------|-------|----|-------|----|----|-------|-------------------|-------------------|-------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |     |    |    |    |    |    |       |    |    |    |    |    |    |    |       |       |    |       |    |    |       |                   |                   |       |
| Belvidere.....                       | Maximum...   | 36 | 45 | 40 | 34 | 22 | 19 | 29 | 35  | 40 | 39 | 37 | 36 | 38 | 39    | 29 | 23 | 25 | 19 | 28 | 30 | 36 | 37    | 28    | 23 | 43    | 35 | 41 | 39    | .....             | 33.0              |       |
|                                      | Minimum...   | 18 | 28 | 32 | 11 | 13 | 3  | 9  | -3  | 22 | 21 | 10 | 4  | 25 | 29    | 9  | 7  | 6  | 0  | 14 | 4  | 8  | 13    | 13    | 3  | 20    | 19 | 32 | 30    | .....             | 14.3              |       |
| Charlotteburg.....                   | Maximum...   | 41 | 44 | 41 | 38 | 19 | 20 | 27 | 37  | 40 | 36 | 35 | 32 | 36 | 38    | 34 | 18 | 22 | 21 | 29 | 25 | 31 | 33    | 30    | 25 | 41    | 36 | 42 | 41    | .....             | 32.6              |       |
|                                      | Minimum...   | 21 | 30 | 29 | 7  | 9  | -2 | 6  | -8  | 24 | 19 | 3  | 11 | 20 | 25    | 6  | 5  | 1  | 9  | -6 | 10 | 10 | 10    | 13    | 1  | 11    | 15 | 30 | 28    | .....             | 11.9              |       |
| Dover.....                           | Maximum...   | 40 | 44 | 40 | 24 | 21 | 19 | 28 | 36  | 41 | 35 | 36 | 30 | 35 | 38    | 21 | 22 | 24 | 18 | 29 | 22 | 33 | 35    | 23    | 24 | 43    | 36 | 42 | 38    | .....             | 31.3              |       |
|                                      | Minimum...   | 25 | 32 | 23 | 10 | 10 | 5  | 7  | 0   | 24 | 9  | 11 | 23 | 18 | 8     | 8  | 7  | 3  | 10 | 1  | 9  | 13 | 8     | 5     | 22 | 18    | 33 | 20 | ..... | 13.2              |                   |       |
| Layton.....                          | Maximum...   | 38 | 43 | 42 | 32 | 22 | 18 | 27 | 38  | 40 | 34 | 35 | 35 | 37 | 39    | 29 | 18 | 31 | 17 | 28 | 20 | 34 | 32    | 26    | 26 | 43    | 38 | 45 | 38    | .....             | 32.3              |       |
|                                      | Minimum...   | 18 | 32 | 32 | 9  | 8  | -6 | -4 | -8  | 26 | 21 | 0  | -2 | 18 | 29    | 6  | 1  | 9  | 9  | -5 | 1  | 13 | 13    | -5    | 19 | 10    | 27 | 28 | ..... | 10.3              |                   |       |
| Newton.....                          | Maximum...   | 41 | 42 | 40 | 33 | 21 | 18 | 24 | 34  | 41 | 32 | 34 | 30 | 35 | 42    | 30 | 22 | 21 | 21 | 26 | 22 | 34 | 34    | 30    | -5 | 19    | 10 | 27 | 28    | .....             | 31.5              |       |
|                                      | Minimum...   | 19 | 32 | 30 | 8  | 11 | 3  | 4  | 7   | 22 | 20 | 9  | 11 | 22 | 25    | 7  | 5  | 2  | 11 | 7  | 9  | 19 | 9     | 1     | 18 | 20    | 30 | 28 | ..... | 14.1              |                   |       |
| Phillipsburg.....                    | Maximum...   | 32 | 41 | 40 | 30 | 24 | 22 | 29 | 36  | 42 | 37 | 36 | 34 | 46 | 47    | 22 | 23 | 34 | 22 | 29 | 26 | 33 | ..... | 29    | 51 | 43    | 47 | 44 | ..... | 34.6 <sup>b</sup> |                   |       |
|                                      | Minimum...   | 24 | 34 | 30 | 16 | 14 | 10 | 4  | 0   | 21 | 15 | 15 | 6  | 28 | 16    | 12 | 11 | 7  | 13 | 9  | 13 | 18 | 11    | ..... | 26 | 24    | 34 | 31 | ..... | 16.8 <sup>a</sup> |                   |       |
| Sussex.....                          | Maximum...   | 39 | 41 | 44 | 35 | 28 | 21 | 22 | 38  | 41 | 39 | 36 | 28 | 37 | 40    | 30 | 23 | 26 | 21 | 28 | 27 | 37 | 35    | 31    | 27 | 46    | 35 | 42 | 38    | .....             | 33.4              |       |
|                                      | Minimum...   | 18 | 33 | 32 | 9  | 10 | -3 | -4 | -10 | 21 | 21 | 0  | 2  | 19 | 29    | 3  | 6  | 5  | 0  | 10 | -5 | 0  | 10    | 13    | -1 | 19    | 11 | 31 | 29    | .....             | 11.0              |       |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |     |    |    |    |    |    |       |    |    |    |    |    |    |    |       |       |    |       |    |    |       |                   |                   |       |
| Bergen Point.....                    | Maximum...   | 40 | 42 | 48 | 36 | 23 | 23 | 31 | 39  | 44 | 38 | 32 | 32 | 36 | 41    | 40 | 28 | 26 | 21 | 30 | 26 | 35 | 38    | 26    | 26 | 39    | 38 | 42 | 39    | .....             | 34.2              |       |
|                                      | Minimum...   | 26 | 34 | 34 | 15 | 17 | 13 | 14 | 14  | 27 | 17 | 20 | 14 | 30 | 28    | 12 | 13 | 12 | 8  | 15 | 15 | 15 | 22    | 13    | 9  | 26    | 24 | 34 | 31    | .....             | 19.7              |       |
| Boonton§§.....                       | Maximum...   | 42 | 45 | 43 | 25 | 21 | 21 | 30 | 36  | 43 | 33 | 35 | 33 | 38 | 40    | 19 | 21 | 20 | 19 | 29 | 23 | 36 | 37    | 24    | 30 | 43    | 34 | 43 | 37    | .....             | 32.1              |       |
|                                      | Minimum...   | 2  | 25 | 30 | 11 | 10 | 3  | 5  | -3  | 2  | 21 | 6  | 0  | 8  | 27    | 8  | 8  | 2  | 4  | 5  | 1  | 2  | 9     | 14    | 4  | 7     | 15 | 20 | 30    | .....             | 9.9               |       |
| Elizabeth.....                       | Maximum...   | 40 | 45 | 43 | 39 | 24 | 23 | 33 | 37  | 45 | 41 | 35 | 34 | 39 | 41    | 35 | 25 | 27 | 25 | 31 | 27 | 36 | 41    | 31    | 26 | 45    | 41 | 44 | 41    | .....             | 35.5              |       |
|                                      | Minimum...   | 25 | 32 | 35 | 15 | 17 | 12 | 15 | 5   | 24 | 24 | 20 | 8  | 27 | 31    | 10 | 11 | 9  | 6  | 14 | 14 | 9  | 18    | 17    | 7  | 22    | 24 | 34 | 32    | .....             | 18.5              |       |
| Flemington.....                      | Maximum...   | 39 | 43 | 40 | 38 | 25 | 24 | 35 | 37  | 46 | 40 | 38 | 33 | 39 | 42    | 30 | 25 | 28 | 25 | 31 | 24 | 38 | 39    | 31    | 28 | 47    | 43 | 40 | 39    | .....             | 35.2              |       |
|                                      | Minimum...   | 23 | 33 | 33 | 15 | 12 | 11 | 13 | -5  | 23 | 24 | 12 | -3 | 25 | 29    | 10 | 9  | 9  | 3  | 15 | 7  | 3  | 14    | 15    | 6  | 23    | 22 | 33 | 32    | .....             | 15.9              |       |
| Highwood.....                        | Maximum...   | 40 | 40 | 41 | 34 | 22 | 22 | 28 | 35  | 42 | 35 | 31 | 30 | 35 | 39    | 25 | 22 | 25 | 20 | 30 | 25 | 32 | 36    | 27    | 25 | 41    | 35 | 42 | 37    | .....             | 32.0              |       |
|                                      | Minimum...   | 25 | 30 | 33 | 15 | 16 | 7  | 11 | 2   | 25 | 19 | 12 | 3  | 28 | 23    | 11 | 11 | 6  | 5  | 9  | 5  | 2  | 15    | 11    | 7  | 23    | 20 | 33 | 31    | .....             | 15.6              |       |
| Jersey City.....                     | Maximum...   | 42 | 45 | 42 | 35 | 25 | 24 | 30 | 37  | 45 | 38 | 36 | 33 | 40 | 41    | 28 | 25 | 26 | 22 | 31 | 30 | 37 | 39    | 30    | 28 | 44    | 42 | 46 | 37    | .....             | 34.9              |       |
|                                      | Minimum...   | 27 | 34 | 35 | 13 | 15 | 13 | 12 | 16  | 26 | 23 | 19 | 20 | 28 | 28    | 12 | 12 | 13 | 7  | 15 | 17 | 17 | 25    | 13    | 9  | 26    | 32 | 35 | 30    | .....             | 20.4              |       |
| Lambertville.....                    | Maximum...   | 38 | 39 | 41 | 34 | 21 | 20 | 25 | 33  | 43 | 36 | 34 | 31 | 40 | 39    | 30 | 20 | 23 | 22 | 26 | 26 | 31 | 35    | 24    | 25 | 42    | 39 | 41 | 42    | .....             | 32.1              |       |
|                                      | Minimum...   | 23 | 33 | 34 | 16 | 17 | 11 | 13 | 14  | 25 | 23 | 18 | 13 | 27 | 30    | 10 | 9  | 11 | 6  | 15 | 13 | 13 | 18    | 14    | 5  | 24    | 27 | 35 | 32    | .....             | 18.9              |       |
| Little Falls§§§.....                 | Maximum...   | 40 | 44 | 40 | 26 | 20 | 20 | 32 | 39  | 44 | 35 | 42 | 34 | 35 | ..... | 20 | 23 | 26 | 21 | 31 | 23 | 36 | 36    | 24    | 36 | ..... | 35 | 44 | 36    | .....             | 32.4 <sup>b</sup> |       |
|                                      | Minimum...   | 6  | 29 | 32 | 12 | 15 | 6  | 12 | 1   | 7  | 23 | 11 | 4  | 23 | 29    | 10 | 11 | 9  | 5  | 12 | 4  | 5  | 15    | 7     | 4  | 12    | 18 | 23 | 32    | .....             | 13.5              |       |
| Newark.....                          | Maximum...   | 42 | 41 | 41 | 25 | 21 | 20 | 28 | 35  | 43 | 33 | 35 | 30 | 36 | 38    | 20 | 21 | 24 | 19 | 28 | 22 | 34 | 37    | 24    | 26 | 43    | 39 | 43 | 36    | .....             | 31.6              |       |
|                                      | Minimum...   | 26 | 37 | 25 | 13 | 15 | 12 | 12 | 15  | 24 | 20 | 18 | 22 | 28 | 14    | 11 | 12 | 11 | 8  | 17 | 13 | 17 | 14    | 10    | 9  | 26    | 29 | 34 | 30    | .....             | 19.0              |       |
| New Brunswick.....                   | Maximum...   | 40 | 44 | 43 | 36 | 23 | 21 | 27 | 37  | 44 | 41 | 34 | 30 | 42 | 41    | 32 | 21 | 25 | 24 | 28 | 26 | 32 | 37    | 32    | 25 | 42    | 41 | 42 | 42    | .....             | 34.0              |       |
|                                      | Minimum...   | 23 | 33 | 35 | 14 | 17 | 11 | 13 | 0   | 24 | 24 | 19 | 7  | 27 | 30    | 11 | 10 | 11 | 5  | 15 | 11 | 8  | 18    | 17    | 5  | 23    | 26 | 33 | 31    | .....             | 17.9              |       |
| Paterson.....                        | Maximum...   | 40 | 45 | 42 | 36 | 24 | 22 | 33 | 39  | 43 | 40 | 32 | 33 | 35 | 43    | 30 | 25 | 28 | 22 | 32 | 25 | 35 | 40    | 30    | 28 | 43    | 40 | 43 | 41    | .....             | 34.6              |       |
|                                      | Minimum...   | 25 | 33 | 34 | 15 | 16 | 11 | 14 | 9   | 28 | 24 | 17 | 12 | 25 | 28    | 11 | 12 | 10 | 7  | 13 | 11 | 15 | 23    | 15    | 9  | 22    | 23 | 34 | 33    | .....             | 18.9              |       |
| Plainfield.....                      | Maximum...   | 40 | 46 | 42 | 34 | 23 | 22 | 32 | 36  | 45 | 37 | 38 | 33 | 43 | 42    | 26 | 24 | 26 | 21 | 29 | 26 | 35 | 38    | 26    | 25 | 43    | 41 | 44 | 37    | .....             | 34.1              |       |
|                                      | Minimum...   | 25 | 32 | 34 | 15 | 16 | 10 | 7  | -2  | 18 | 19 | 13 | -1 | 24 | 26    | 10 | 10 | 9  | 6  | 15 | 6  | 1  | 18    | 12    | 5  | 24    | 21 | 33 | 31    | .....             | 15.6              |       |
| Ridgefield.....                      | Maximum...   | 41 | 42 | 42 | 24 | 22 | 22 | 27 | 36  | 46 | 36 | 33 | 30 | 36 | 40    | 19 | 21 | 24 | 18 | 30 | 23 | 32 | 36    | 24    | 26 | 43    | 36 | 43 | 38    | .....             | 31.8              |       |
|                                      | Minimum...   | 29 | 30 | 24 | 14 | 16 | 8  | 12 | 7   | 25 | 17 | 15 | 10 | 31 | 17    | 11 | 10 | 8  | 5  | 14 | 7  | 7  | 21    | 9     | 6  | 25    | 22 | 33 | 26    | .....             | 16.4              |       |
| Somerville.....                      | Maximum...   | 39 | 45 | 42 | 38 | 24 | 23 | 30 | 36  | 45 | 41 | 38 | 35 | 42 | 42    | 33 | 24 | 26 | 25 | 29 | 26 | 35 | 39    | 31    | 26 | 45    | 40 | 42 | 42    | .....             | 35.1              |       |
|                                      | Minimum...   | 23 | 33 | 35 | 15 | 18 | 11 | 15 | -4  | 14 | 25 | 13 | -3 | 25 | 30    | 12 | 11 | 9  | 1  | 15 | 6  | -1 | 13    | 16    | 8  | 23    | 18 | 32 | ..... | 15.3 <sup>a</sup> |                   |       |
| South Orange.....                    | Maximum...   | 39 | 42 | 43 | 25 | 22 | 22 | 28 | 35  | 43 | 36 | 34 | 34 | 38 | 39    | 21 | 23 | 25 | 20 | 29 | 25 | 31 | 37    | 23    | 26 | 42    | 39 | 43 | 37    | .....             | 32.2              |       |
|                                      | Minimum...   | 30 | 33 | 25 | 13 | 14 | 11 | 13 | 12  | 24 | 19 | 21 | 14 | 10 | 16    | 10 | 11 | 10 | 6  | 16 | 13 | 14 | 22    | 10    | 8  | 25    | 25 | 34 | 30    | .....             | 17.5              |       |
| New York, N. Y.....                  | Maximum...   | 42 | 44 | 45 | 25 | 24 | 24 | 29 | 38  | 45 | 37 | 34 | 32 | 38 | 39    | 22 | 25 | 26 | 21 | 33 | 30 | 36 | 39    | 27    | 27 | 44    | 41 | 46 | 37    | .....             | 33.9              |       |
|                                      | Minimum...   | 27 | 34 | 25 | 13 | 15 | 14 | 13 | 18  | 27 | 23 | 20 | 23 | 29 | 17    | 12 | 12 | 7  | 18 | 21 | 19 | 26 | 11    | 9     | 26 | 33    | 35 | 30 | ..... | 20.3              |                   |       |
| The Southern Interior.               |              |    |    |    |    |    |    |    |     |    |    |    |    |    |       |    |    |    |    |    |    |    |       |       |    |       |    |    |       |                   |                   |       |
| Belle Plain.....                     | Maximum..... | 39 | 46 | 53 | 41 | 25 | 26 | 35 | 35  | 50 | 40 | 39 | 38 | 4  |       |    |    |    |    |    |    |    |       |       |    |       |    |    |       |                   |                   |       |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVIII.

MARCH, 1923.

No. 3.

### GENERAL SUMMARY.

There was a general absence of many of the usual disagreeable features of typical March weather in New Jersey during March, 1923. The 2d, 3d, and 4th were pleasantly warm as well as the 11th, 16th, 22d, and 23d, the latter being the warmest day on record for the last decade of the month in many localities. This warm day, with temperatures in the upper 70's almost everywhere, was followed by a violent reaction, with an attendant thundershower and wind squalls that caused considerable damage to trees and structures. During one of these squalls an extreme velocity of 90 miles per hour occurred for a fraction of a minute in Trenton. Cold waves brought the month to a close, with attending temperatures of 10° or thereabouts on the 28th, 29th and 31st, which, in most instances, were records for so late in the month.

Snow disappeared from the ground from the 12th to 17th in extreme northern counties, and the total fall throughout, while slightly greater than normal, was not of particular importance.

The variation of warmth and moisture from the normal was unimportant. The amount of clear sky and sunshine was slightly greater than normal, and afforded some slight benefit to outdoor operations.

The cold waves at the close of the month greatly retarded vegetation, especially in southern districts, and the ground was mostly unfit for farm work.

Storm warnings were displayed along the coast on the 4th, 6th, 7th, 10th, 15th, 16th, 18th, 19th, and continuously the last four days of the month.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 40 stations was 38.0°, which was 0.7° below the normal. The highest temperature was 81° at Bridgeton on the 23d, and the lowest, -3° at Layton on the 9th. The highest monthly mean temperature was 43.4° at Vineland, and the lowest, 32.8° at Layton. The greatest daily range of temperature was 42° at Tuckerton on the 3d, Burlington on the 5th, and Lumberton on the 30th.

The temperature departure from the normal for the year 1923 to date, by sections, is: The Highlands, -1.8°; Red Sandstone Plain, -2.2°; Southern Interior, -0.3°; Sea Coast, -0.8°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 45 stations was 4.09 inches, which was 0.16 inch above the normal. The greatest monthly precipitation was 6.73 inches at Cape May City, and the least, 2.13 inches at Sussex. The average total snowfall was 6.3 inches, which was 0.4 inch above the normal; this average ranged from 7.7 inches in the Highlands to 4.8 inches in the Southern Interior. The greatest precipitation accumulated in any 24 consecutive hours was 2.85 inches at Vineland on the 16th and 17th. The average number of days on which .01 inch or more of precipitation fell was 10 which was 1 less than the normal.

The precipitation accumulated departure from the normal for the year 1923 to date, by sections, is: The Highlands, -0.76 inch; Red Sandstone Plain, +0.12 inch; Southern Interior, +1.95 inches; Sea Coast, +1.28 inches.

### WIND.

The prevailing wind direction was from the northwest, with a velocity of 15 miles per hour, which was 1 mile above the normal. The highest wind velocity, sustained for 5 consecutive minutes, was 73 miles per hour from the south on the 16th at Sandy Hook.

### SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 17, which was 3 more than the normal; partly cloudy 6, which was 2 less than the normal; cloudy, 8, which was 1 less than the normal. The mean per cent of possible sunshine was 64, which was 3 per cent above the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 6.8 feet, and the highest, 14.5 feet on the 25th. At Trenton the mean daily stage was 4.5 feet, which was 0.4 foot above the normal; the highest stage was 8.0 feet on the 25th.

The mean atmospheric pressure, reduced to sea level, was 30.05 inches, which was 0.04 inch above the normal. The highest reading was 30.78 inches at Sandy Hook on the 15th, and the lowest, 29.01 inches at Atlantic City on the 7th. Dense fog was reported on the 1st, 12th, 13th, 16th, 19th, 22d and 23d. Sleet occurred generally throughout the State on the 6th, and 7th, and at a few stations on the 10th, 12th, 16th, 19th, and 26th. Solar halos were observed on the 3d, 5th, 11th, 21st, 25th and 29th, and lunar halos on the 2d, 25th, and 29th. Thunderstorms occurred in some portions of the State on the 19th, 22d, and 23d.

### COMPARATIVE DATA FOR MARCH.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.4         | 66       | 2       | 1.10           | 2.29      | 0.23   | .....        | .....          | .....   | .....                  |
| 1886..... | 37.7         | 70       | 9       | 3.70           | 5.27      | 2.59   | .....        | .....          | .....   | .....                  |
| 1887..... | 37.7         | 67       | 8       | 3.34           | 5.45      | 2.19   | .....        | .....          | 13      | 10                     |
| 1888..... | 32.8         | 72       | 0       | 5.71           | 8.22      | 3.75   | .....        | .....          | 12      | 11                     |
| 1889..... | 40.5         | 67       | 19      | 3.79           | 6.49      | 1.98   | .....        | .....          | 13      | 8                      |
| 1890..... | 37.6         | 78       | 0       | 6.08           | 7.92      | 4.14   | .....        | .....          | 13      | 14                     |
| 1891..... | 37.2         | 68       | 4       | 5.06           | 8.02      | 2.05   | 8            | 10             | 13      | 12                     |
| 1892..... | 34.4         | 64       | 6       | 4.75           | 7.21      | 3.11   | 10           | 12             | 9       | 9                      |
| 1893..... | 37.0         | 68       | 6       | 3.73           | 6.26      | 2.36   | 10           | 10             | 11      | 10                     |
| 1894..... | 44.2         | 83       | 12      | 1.77           | 2.65      | 1.09   | 12           | 11             | 8       | 10                     |
| 1895..... | 36.7         | 72       | 7       | 3.16           | 4.66      | 1.77   | 12           | 8              | 11      | 10                     |
| 1896..... | 34.0         | 69       | -8      | 5.34           | 7.38      | 3.14   | 13           | 8              | 10      | 11                     |
| 1897..... | 40.0         | 77       | 18      | 2.78           | 4.32      | 1.55   | 11           | 9              | 11      | 10                     |
| 1898..... | 45.1         | 77       | 16      | 3.33           | 4.25      | 2.56   | 9            | 10             | 12      | 12                     |
| 1899..... | 38.6         | 73       | 13      | 6.54           | 9.58      | 3.45   | 7            | 10             | 14      | 13                     |
| 1900..... | 35.6         | 67       | -9      | 3.51           | 4.96      | 2.48   | 12           | 12             | 7       | 10                     |
| 1901..... | 39.2         | 75       | -8      | 4.64           | 8.07      | 2.40   | 9            | 10             | 12      | 12                     |
| 1902..... | 43.9         | 77       | 0       | 4.34           | 7.20      | 3.16   | 12           | 10             | 9       | 11                     |
| 1903..... | 47.6         | 79       | 13      | 5.13           | 8.53      | 3.60   | 11           | 8              | 12      | 10                     |
| 1904..... | 37.2         | 72       | 1       | 3.43           | 4.76      | 2.02   | 11           | 8              | 12      | 13                     |
| 1905..... | 39.8         | 87       | -7      | 3.95           | 5.06      | 2.80   | 14           | 8              | 9       | 12                     |
| 1906..... | 34.4         | 62       | -15     | 5.09           | 6.77      | 2.91   | 10           | 9              | 12      | 11                     |
| 1907..... | 41.2         | 88       | -11     | 3.04           | 4.38      | 1.81   | 13           | 10             | 8       | 10                     |
| 1908..... | 41.8         | 89       | 7       | 2.80           | 4.92      | 1.06   | 11           | 9              | 11      | 12                     |
| 1909..... | 38.3         | 74       | -6      | 3.48           | 4.66      | 2.31   | 12           | 10             | 9       | 13                     |
| 1910..... | 44.5         | 88       | 10      | 1.22           | 2.36      | 0.29   | 14           | 10             | 7       | 6                      |
| 1911..... | 37.6         | 76       | 3       | 3.38           | 4.50      | 2.64   | 10           | 12             | 9       | 11                     |
| 1912..... | 36.9         | 72       | 3       | 7.61           | 9.61      | 5.95   | 9            | 11             | 11      | 14                     |
| 1913..... | 44.8         | 79       | -1      | 5.15           | 7.73      | 2.47   | 10           | 9              | 12      | 12                     |
| 1914..... | 35.4         | 75       | -6      | 3.65           | 6.45      | 2.02   | 13           | 10             | 8       | 10                     |
| 1915..... | 36.1         | 63       | 6       | 1.13           | 1.65      | 0.58   | 20           | 7              | 4       | 3                      |
| 1916..... | 31.7         | 71       | -9      | 3.48           | 4.96      | 2.38   | 13           | 8              | 10      | 12                     |
| 1917..... | 38.2         | 72       | 0       | 4.65           | 7.14      | 2.28   | 12           | 8              | 11      | 13                     |
| 1918..... | 41.8         | 82       | 0       | 2.06           | 3.76      | 0.99   | 17           | 7              | 7       | 9                      |
| 1919..... | 43.2         | 77       | 12      | 5.32           | 7.40      | 3.77   | 14           | 7              | 10      | 13                     |
| 1920..... | 39.4         | 79       | -8      | 3.80           | 5.36      | 2.29   | 17           | 5              | 9       | 10                     |
| 1921..... | 49.1         | 92       | 9       | 3.03           | 4.65      | 1.80   | 14           | 10             | 7       | 11                     |
| 1922..... | 41.1         | 82       | 2       | 4.52           | 7.10      | 3.42   | 12           | 6              | 13      | 13                     |
| 1923..... | 38.0         | 81       | -3      | 4.09           | 6.73      | 2.13   | 17           | 6              | 8       | 10                     |



## Climatological Data for March, 1923.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                          |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|--------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                  |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                          |
| Belvidere.....                       | Warren.....     | 289              | 31                       | 34.8 <sup>a</sup>             | -3.3                       | 73       | 23    | 3       | 9     | 38                        | 3.64   | -0.21                      | 1.18                  | 8.7                        | 10                             | 21     | 4           | 6                             | .....      | Samuel J. Hixson.        |
| Charlotteburg.....                   | Passaic.....    | 719              | 30                       | 34.1                          | -1.7                       | 72       | 23    | 3       | 9     | 37                        | 2.93   | -1.27                      | 0.91                  | 6.5                        | 8                              | 16     | 7           | 8                             | w.         | Newark Water Dept.       |
| Culvers Lake <sup>††</sup> .....     | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | 2       | 29    | .....                     | 2.67   | -0.80                      | 0.61                  | 9.7                        | 13                             | 16     | 6           | 9                             | nw.        | Brice E. Riker.          |
| Dover.....                           | Morris.....     | 600              | 38                       | 34.8                          | -0.4                       | 74       | 23    | 5       | 9     | 36                        | 3.21   | -0.78                      | 1.06                  | 8.0                        | 9                              | 6      | 18          | 7                             | .....      | William C. Harris.       |
| Layton.....                          | Sussex.....     | 480              | 21                       | 32.8                          | -2.8                       | 66       | 23    | -3      | 9     | 38                        | 2.64   | -0.73                      | 0.92                  | 8.2                        | 11                             | 16     | 3           | 12                            | s.         | A. M. Depue.             |
| Newton.....                          | Sussex.....     | 769              | 39                       | 34.2 <sup>b</sup>             | -1.3                       | 71       | 23    | 6       | 29    | 38                        | 2.66   | -0.91                      | 1.19                  | 6.5                        | 9                              | 15     | 7           | 9                             | sw.        | Irving G. Kern.          |
| Phillipsburg.....                    | Warren.....     | 363              | 39                       | 38.6 <sup>c</sup>             | +0.5                       | 78       | 23    | 11      | 9     | 35                        | 2.71   | -0.83                      | 0.94                  | 5.6                        | 7                              | .....  | .....       | .....                         | .....      | Town Engineer.           |
| Sussex.....                          | Sussex.....     | 442              | 28                       | 34.4                          | -1.9                       | 65       | 23    | -2      | 9     | 41                        | 2.13   | -1.46                      | 0.83                  | 8.5                        | 8                              | 18     | 4           | 9                             | sw.        | Rev. W. August George    |
| Means and extremes...                |                 |                  |                          | 34.8                          | -1.6                       | 78       | 23    | -3      | 9     | 41                        | 2.82   | -0.87                      | 1.19                  | 7.7                        | 9                              | 15     | 7           | 9                             | sw.        |                          |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                          |
| Bergen Point <sup>††</sup> .....     | Hudson.....     | 37               | 25                       | 38.0                          | -1.5                       | 75       | 23    | 11      | 29    | 33                        | 2.73   | -1.27                      | 1.12                  | 3.0                        | 8                              | 9      | 15          | 7                             | nw.        | William H. Mitchell.     |
| Boonton.....                         | Morris.....     | 400              | 32                       | 33.0 <sup>a</sup>             | -3.6                       | 72       | 17    | 6       | 9     | 38                        | 3.15   | -0.79                      | 1.20                  | .....                      | 9                              | 16     | 3           | 12                            | nw.        | John Kline.              |
| Chatham.....                         | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.09   | +0.35                      | 1.72                  | .....                      | 10                             | 20     | 4           | 7                             | .....      | Paul Molitor, Sr.        |
| Elizabeth.....                       | Union.....      | 45               | 43                       | 38.1                          | -0.7                       | 77       | 23    | 11      | 29    | 34                        | 3.79   | -0.43                      | 1.17                  | 8.0                        | 10                             | 13     | 9           | 9                             | nw         | L. B. Bonnett.           |
| Flemington.....                      | Hunterdon.....  | 140              | 36                       | 38.6                          | -1.5                       | 79       | 23    | 8       | 9     | 37                        | 4.05   | +0.16                      | 1.33                  | 7.0                        | 12                             | 20     | 3           | 8                             | w.         | Hiram E. Deats.          |
| Highwood.....                        | Bergen.....     | 90               | 34                       | 35.4                          | -1.6                       | 75       | 23    | 8       | 9     | 28                        | 3.53   | -0.65                      | 1.17                  | 6.1                        | 7                              | 18     | 3           | 10                            | nw.        | Grant McQuaid.           |
| Jersey City.....                     | Hudson.....     | 10               | 24                       | 37.8                          | -1.4                       | 77       | 23    | 10      | 29    | 28                        | 4.20   | +0.05                      | 1.16                  | 7.2                        | 11                             | 17     | 6           | 8                             | nw.        | S. K. Pearson, Jr.       |
| Lambertville.....                    | Hunterdon.....  | 370              | 35                       | 37.8 <sup>a</sup>             | -1.6                       | 76       | 23    | 10      | 29    | 30                        | 4.09   | +0.06                      | 1.32                  | 5.2                        | 13                             | 17     | 6           | 8                             | nw.        | Wm. J. Lauderdale.       |
| Little Falls.....                    | Passaic.....    | 180              | 19                       | 35.0                          | -3.0                       | 79       | 23    | 6       | 9     | 39                        | 3.68   | +0.09                      | 1.38                  | 8.0                        | 10                             | 17     | 6           | 8                             | nw.        | Montclair Water Co.      |
| Newark.....                          | Essex.....      | 159              | 80                       | 37.5                          | -1.5                       | 76       | 23    | 14      | 6     | 28                        | 4.28   | +0.41                      | 1.10                  | 7.4                        | 9                              | 15     | 6           | 10                            | sw.        | Prof. William Wiener.    |
| New Brunswick.....                   | Middlesex.....  | 110              | 69                       | 38.4                          | -0.4                       | 79       | 23    | 10      | 29    | 35                        | 4.08   | +0.27                      | 1.28                  | 4.4                        | 11                             | 19     | 4           | 8                             | sw.        | N. J. Experiment Station |
| New Milford <sup>††</sup> .....      | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | 1.48                  | .....                      | 8                              | .....  | .....       | .....                         | .....      | Hackensack Water Co.     |
| Paterson.....                        | Passaic.....    | 80               | 51                       | 37.6                          | -1.2                       | 78       | 23    | 11      | 29    | 33                        | 3.38   | -1.00                      | 1.16                  | 9.0                        | 12                             | 7      | 3           | 21                            | sw.        | Marion T. Probert.       |
| Plainfield.....                      | Union.....      | 120              | 34                       | 36.4                          | -2.4                       | 76       | 23    | 4       | 9     | 36                        | 4.06   | -0.21                      | 1.36                  | 7.8                        | 11                             | 16     | 7           | 8                             | nw.        | E. D. Pearson.           |
| Ridgefield <sup>††</sup> .....       | Bergen.....     | 70               | 7                        | 35.0                          | .....                      | 75       | 23    | 10      | 29    | 36                        | 3.60   | .....                      | 1.06                  | 8.2                        | 13                             | 15     | 4           | 12                            | nw.        | George P. Kirsten.       |
| Somerville.....                      | Somerset.....   | 70               | 39                       | 37.2                          | -1.0                       | 77       | 23    | 6       | 9     | 36                        | 4.28   | +0.32                      | 0.99                  | .....                      | 11                             | 20     | 1           | 10                            | nw         | H. B. TenEyck.           |
| South Orange.....                    | Essex.....      | 200              | 52                       | 36.2                          | -0.9                       | 74       | 23    | 10      | 29    | 36                        | 4.12   | +0.26                      | 1.22                  | 11.0                       | 12                             | 13     | 9           | 9                             | nw.        | Wm. H. Meeder.           |
| Woodcliffe Lake <sup>††</sup> .....  | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | 1.00                  | .....                      | 8                              | .....  | .....       | .....                         | .....      | Hackensack Water Co.     |
| New York, N. Y.....                  | .....           | 365              | 52                       | 37.0                          | -0.7                       | 73       | 23    | 10      | 29    | 34                        | 4.08   | -0.02                      | 1.09                  | 6.2                        | 9                              | 8      | 12          | 11                            | nw.        | U. S. Weather Bureau.    |
| Means and extremes...                |                 |                  |                          | 36.8                          | -1.6                       | 79       | 23    | 4       | 9     | 39                        | 3.82   | -0.16                      | 1.72                  | 7.1                        | 10                             | 16     | 5           | 10                            | nw.        |                          |
| The Southern Interior.               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                          |
| Belle Plain.....                     | Cape May.....   | 30               | 28                       | 42.1                          | +1.0                       | 78       | 23    | 13      | 29    | 39                        | 5.50   | +1.80                      | 2.12                  | 7.2                        | 14                             | 23     | 3           | 5                             | nw.        | Thomas J. Durell.        |
| Bridgeton.....                       | Cumberland..... | 30               | 41                       | 42.9                          | +0.6                       | 81       | 23    | 13      | 29    | 38                        | 4.50   | +0.32                      | 2.00                  | 5.0                        | 7                              | 23     | 2           | 6                             | w.         | Henry A. Jorden.         |
| Burlington.....                      | Burlington..... | 12               | 36                       | 41.0                          | +0.6                       | 79       | 23    | 12      | 29    | 42                        | 3.87   | +0.16                      | 1.26                  | 4.5                        | 12                             | 21     | 2           | 8                             | nw.        | D. S. B. McCoy.          |
| Camp Dix.....                        | Burlington..... | 127              | 4                        | 40.4                          | .....                      | 79       | 23    | 10      | 29    | 39                        | 5.44   | .....                      | 1.82                  | .....                      | 10                             | 16     | 11          | 4                             | sw.        | U. S. Army.              |
| Hammononton.....                     | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.59   | +2.00                      | 2.06                  | 6.0                        | 10                             | 21     | 2           | 8                             | w.         | Charles M. Phillips.     |
| Hightstown.....                      | Mercer.....     | 120              | 30                       | 38.3                          | -2.1                       | 79       | 23    | 9       | 29    | 38                        | 5.14   | +1.10                      | 1.19                  | 4.0                        | 12                             | 23     | 0           | 8                             | sw.        | E. H. Savage, Jr.        |
| Imlaystown.....                      | Monmouth.....   | 115              | 34                       | 39.2                          | +0.1                       | 78       | 23    | 9       | 9     | 38                        | 3.79   | -0.29                      | 1.49                  | .....                      | 13                             | 21     | 4           | 6                             | w.         | Wm. R. Hendrickson.      |
| Indian Mills <sup>††</sup> .....     | Burlington..... | 76               | 33                       | 41.6                          | +1.1                       | 80       | 23    | 12      | 29    | 38                        | 4.97   | +0.94                      | 1.87                  | 4.0                        | 12                             | 13     | 10          | 8                             | sw.        | James M. Armstrong.      |
| Lakewood.....                        | Ocean.....      | 54               | 18                       | 39.3                          | -0.3                       | 79       | 23    | 11      | 29    | 38                        | 4.57   | +0.59                      | 1.61                  | 4.0                        | 12                             | 18     | 3           | 10                            | sw.        | R. W. Holman.            |
| Lumberton.....                       | Burlington..... | .....            | .....                    | 41.0 <sup>b</sup>             | .....                      | 80       | 23    | 12      | 29    | 42                        | 4.27   | .....                      | 1.67                  | 2.5                        | 13                             | 16     | 7           | 8                             | nw.        | Ralph B. Stermer.        |
| Moorestown.....                      | Burlington..... | 75               | 59                       | 41.6 <sup>b</sup>             | +2.4                       | 79       | 23    | 13      | 29    | 40                        | 3.87   | +0.11                      | 1.50                  | 4.5                        | 12                             | 20     | 6           | 5                             | w.         | Stokes Seed Farms Co.    |
| Northfield <sup>††</sup> .....       | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.59   | +2.10                      | 1.83                  | 4.3                        | 13                             | .....  | .....       | .....                         | .....      | William L. Flick.        |
| Pleasantville <sup>††</sup> .....    | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.16   | +1.69                      | 1.75                  | .....                      | 9                              | 18     | 6           | 7                             | .....      | Lincoln Van Gilder.      |
| Trenton.....                         | Mercer.....     | 190              | 50                       | 38.3                          | -0.8                       | 76       | 23    | 11      | 29    | 31                        | 3.70   | -0.34                      | 0.98                  | 4.8                        | 9                              | 9      | 11          | 11                            | nw.        | U. S. Weather Bureau.    |
| Tuckerton.....                       | Ocean.....      | 23               | 29                       | 41.2 <sup>b</sup>             | +1.2                       | 75       | 23    | 11      | 20    | 42                        | 4.31   | +0.06                      | 1.82                  | 6.5                        | 8                              | 16     | 10          | 5                             | nw.        | Frank R. Austin.         |
| Vineland.....                        | Cumberland..... | 109              | 53                       | 43.4                          | +2.9                       | 80       | 23    | 14      | 29    | 39                        | 5.68   | +1.72                      | 2.85                  | .....                      | 9                              | 16     | 8           | 7                             | sw.        | H. C. Himes.             |
| Philadelphia, Pa.....                | .....           | 117              | 52                       | 41.2                          | +0.4                       | 77       | 23    | 14      | 29    | 33                        | 3.58   | +0.13                      | 1.08                  | 3.2                        | 9                              | 13     | 8           | 10                            | nw.        | U. S. Weather Bureau.    |
| Means and extremes...                |                 |                  |                          | 40.8                          | +0.6                       | 81       | 23    | 9       | 9     | 42                        | 4.81   | +0.85                      | 2.85                  | 4.8                        | 11                             | 18     | 6           | 7                             | nw.        |                          |
| The Sea Coast.                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                          |
| Asbury Park.....                     | Monmouth.....   | 22               | 33                       | 37.8                          | -1.2                       | 74       | 23    | 12      | 29    | 34                        | 3.95   | -0.28                      | 1.30                  | 5.0                        | 9                              | 17     | 7           | 7                             | nw.        | Information Bureau.      |
| Atlantic City.....                   | Atlantic.....   | 16               | 48                       | 39.6                          | +1.0                       | 73       | 3     | 15      | 29    | 35                        | 6.31   | +2.58                      | 1.81                  | 5.1                        | 11                             | 14     | 9           | 8                             | nw.        | U. S. Weather Bureau.    |
| Cape May City.....                   | Cape May.....   | 17               | 38                       | 40.6                          | -0.2                       | 71       | 3     | 18      | 29    | 34                        | 6.73   | +3.00                      | 1.91                  | 7.5                        | 14                             | 17     | 6           | 8                             | nw.        | U. S. Weather Bureau.    |
| Long Branch.....                     | Monmouth.....   | 25               | 15                       | 37.6                          | -0.9                       | 78       | 23    | 11      | 29    | 32                        | 3.91   | -0.43                      | 1.46                  | 6.4                        | 12                             | 16     | 6           | 9                             | nw.        | William D. Martin, Jr.   |
| Sandy Hook.....                      | Monmouth.....   | 22               | 24                       | 36.4                          | -0.6                       | 73       | 23    | 13      | 29    | 29                        | 3.56   | -0.68                      | 0.90                  | 4.6                        | 11                             | 11     | 9           | 11                            | nw.        | U. S. Weather Bureau.    |
| Means and extremes...                |                 |                  |                          | 38.4                          | -0.4                       | 78       | 23    | 11      | 29    | 35                        | 4.89   | +0.84                      | 1.91                  | 5.7                        | 11                             | 15     | 7           | 9                             | nw.        |                          |
| For the State.....                   |                 |                  |                          | 38.0                          | -0.7                       | 81       | 23    | -3      | 9     | 42                        | 4.09   | +0.16                      | 2.85                  | 6.3                        | 10                             | 17     | 6           | 8                             | nw.        |                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliffe Lake are Wechawken; Northfield is Pleasantville.



Daily Precipitation for March, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |   |   |     |   |        |      |    |   |       |     |      |     |      |    |        |      |     |      |     |    |      |       |     |     |     |     |     |    |    |    | Total. |
|--------------------------------------------|-----------------|---------------|---|---|-----|---|--------|------|----|---|-------|-----|------|-----|------|----|--------|------|-----|------|-----|----|------|-------|-----|-----|-----|-----|-----|----|----|----|--------|
|                                            |                 | 1             | 2 | 3 | 4   | 5 | 6      | 7    | 8  | 9 | 10    | 11  | 12   | 13  | 14   | 15 | 16     | 17   | 18  | 19   | 20  | 21 | 22   | 23    | 24  | 25  | 26  | 27  | 28  | 29 | 30 | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |   |     |   |        |      |    |   |       |     |      |     |      |    |        |      |     |      |     |    |      |       |     |     |     |     |     |    |    |    |        |
| Belvidere.....                             | Delaware.....   |               |   |   |     |   | .41    | .61  |    |   | .20   |     | .65  | .15 |      |    | .82    | .36  |     | .06  |     |    |      | .35   |     |     |     | .03 |     |    |    |    | 3.64   |
| Charlotteburg.....                         | Passaic.....    |               |   |   |     |   | * .75  |      |    |   | .14   |     | .61  | .24 |      |    | * .91  |      |     | .03  |     |    | T.   | .25   |     |     |     |     |     |    |    |    | 2.93   |
| Culvers Lake.....                          | Delaware.....   |               |   |   | .01 |   | .34    | .45  |    |   | .11   |     | .55  | .10 | .09  |    | .61    | .15  |     | .04  |     |    | T.   | .01   | .19 |     | T.  |     |     |    |    |    | 2.67   |
| Dover.....                                 | Passaic.....    |               |   |   |     |   | .45    | .20  |    |   | .15   |     | .63  | .24 |      |    | * 1.06 |      |     | .06  |     |    | .06  | .36   |     |     |     |     |     |    |    |    | 3.21   |
| Layton.....                                | Delaware.....   |               |   |   | T.  |   | .28    | .54  |    |   | .06   |     | .34  | .17 | .06  |    | .66    | .26  |     | .01  |     |    | T.   | * .26 |     |     |     |     |     |    |    |    | 2.64   |
| Newton.....                                | Delaware.....   |               |   |   | T.  |   | .20    | .47  |    |   | .08   |     | .46  | .15 | .04  |    | .92    | .27  |     |      |     | T. | .07  |       |     |     |     |     |     |    |    |    | 2.66   |
| Phillipsburg.....                          | do.....         |               |   |   |     |   | .30    | .33  |    |   | .11   |     | .48  | .28 |      |    | .94    |      |     |      |     |    | T.   | .27   |     |     |     | T.  |     |    |    |    | 2.71   |
| Sussex.....                                | Hudson.....     |               |   |   | T.  |   | .13    | .40  |    |   | .06   |     | .53  | .11 | .07  |    | .58    | .25  |     | T.   |     |    | T.   | T.    |     |     |     | T.  |     |    |    |    | 2.13   |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |   |     |   |        |      |    |   |       |     |      |     |      |    |        |      |     |      |     |    |      |       |     |     |     |     |     |    |    |    |        |
| Bergen Point.....                          | Coast.....      |               |   |   |     |   |        | .62  |    |   | .12   |     | .53  | T.  |      |    | .99    | .13  |     | T.   |     |    |      | .30   | .04 |     | T.  |     |     |    |    |    | 2.73   |
| Boonton   .....                            | Passaic.....    | .05           |   |   |     |   | .63    | T.   |    |   | .08   | .06 | .14  | .62 | .20  |    |        | 1.20 |     |      |     | T. | T.   | .17   |     |     |     |     |     |    |    |    | 3.15   |
| Chatham   .....                            | do.....         |               |   |   |     |   | * .36  | .13  | T. |   | .06   | .17 | .24  | .53 | .28  |    |        | 1.72 |     |      |     |    | T.   | .58   |     |     | T.  | T.  |     |    |    |    | 4.09   |
| Elizabeth.....                             | Coast.....      |               |   |   |     |   | * 1.17 |      |    |   | .13   |     | .26  | .45 | .23  |    | * 1.02 |      |     | .05  |     |    | T.   | .51   |     |     | T.  |     |     |    |    |    | 3.79   |
| Flemington.....                            | Raritan.....    |               |   |   |     |   | .40    | .30  |    |   | .18   |     | .64  | .23 | .14  |    | .89    | .44  |     | .11  |     |    | .02  | .38   | .32 |     | T.  | T.  |     |    |    |    | 4.05   |
| Highwood.....                              | Hackensack..... |               |   |   |     |   | * .90  |      |    |   | .01   |     | .70  | .30 |      |    | * 1.17 |      |     |      |     |    |      | .45   |     |     | T.  |     |     |    |    |    | 3.53   |
| Jersey City.....                           | Coast.....      |               |   |   |     |   | .51    | .42  |    |   | .16   |     | .68  | .36 | .05  |    | .96    | .20  |     | .06  |     |    | T.   | .79   |     |     | .01 |     |     |    |    |    | 4.20   |
| Lambertville.....                          | Delaware.....   |               |   |   |     |   | .14    | .49  |    |   | .04   |     | .56  | .29 | .07  |    | .63    | .35  |     | .11  |     |    | T.   | 1.32  | .06 |     | .02 | .01 |     |    |    |    | 4.09   |
| Little Falls   .....                       | Passaic.....    | .03           |   |   |     |   | .90    | .01  |    |   | .06   | T.  | .26  | .45 | .23  |    | .138   |      |     | T.   | T.  |    | T.   | T.    | .35 |     |     |     | .01 |    |    |    | 3.68   |
| Newark.....                                | Coast.....      |               |   |   |     |   | .40    | .20  |    |   | .53   |     | 1.10 | .35 |      |    | .90    | .09  |     |      |     |    | T.   | .68   |     |     | .03 |     |     |    |    |    | 4.28   |
| New Brunswick.....                         | Raritan.....    |               |   |   |     |   | .23    | .62  |    |   | .06   |     | .45  | .29 | .19  |    | .78    | .50  |     | .08  |     |    | T.   | .28   | .60 |     | T.  |     |     |    |    |    | 4.08   |
| New Milford.....                           | Hackensack..... |               |   |   |     |   | \$ .32 |      |    |   | .13   |     | .81  | .23 |      |    | 1.48   |      |     | *    |     |    |      | .41   |     |     |     |     |     |    |    |    | \$     |
| Paterson.....                              | Passaic.....    |               |   |   |     |   | .30    | .65  |    |   | .11   |     | .77  | .12 | .05  |    | .80    | .36  |     | .02  |     |    | T.   | .15   | .03 |     | .02 |     |     |    |    |    | 3.38   |
| Plainfield.....                            | Raritan.....    |               |   |   |     |   | .46    | .52  |    |   | .12   |     | .52  | .26 | .09  |    | 1.05   | .31  |     | .05  |     |    |      | .01   | .67 |     |     |     |     |    |    |    | 4.06   |
| Ridgefield**.....                          | Hackensack..... |               |   |   |     |   | * 1.06 |      |    |   | .10   |     | .63  | .03 | .30  |    | * 1.02 |      |     | .04  |     |    | .01  | *     | .40 |     | .01 |     |     |    |    |    | 3.60   |
| Somerville.....                            | Raritan.....    |               |   |   |     |   | .40    | .30  |    |   | .32   |     | .72  | .25 | .15  |    | .99    | .27  |     | .03  |     |    |      | .62   | .23 |     |     |     |     |    |    |    | 4.28   |
| South Orange.....                          | Rahway.....     |               |   |   |     |   | * .50  |      |    |   | .29   |     | *    | *   | 1.13 |    | .98    | .24  |     | .13  |     |    | .02  | .75   |     |     | .08 |     |     |    |    |    | 4.12   |
| Woodcliff Lake.....                        | Hackensack..... |               |   |   |     |   | .22    | \$   |    |   | .09   |     | .62  | .20 |      |    | 1.00   |      |     | *    |     |    |      | .24   |     |     |     |     |     |    |    |    | \$     |
| New York, N. Y***                          | Coast.....      |               |   |   |     |   | .66    | .39  |    |   | .12   |     | .65  | .36 | T.   |    | 1.09   | T.   |     | .10  |     |    | T.   | .70   |     |     | .01 |     |     |    |    |    | 4.08   |
| <i>The Southern Interior.</i>              |                 |               |   |   |     |   |        |      |    |   |       |     |      |     |      |    |        |      |     |      |     |    |      |       |     |     |     |     |     |    |    |    |        |
| Belle Plain.....                           | Tuckahoe.....   | T.            |   |   |     |   | * 1.05 |      |    |   | .07   |     | .18  | .53 | .26  |    | 1.03   | 1.09 |     | .78  | .01 |    |      | .08   | .35 |     | *   | .07 |     |    |    |    | 5.50   |
| Bridgeton.....                             | Coast.....      |               |   |   |     |   | * 1.25 |      |    |   | T.    |     | .25  |     |      |    | 1.30   | .70  |     | .65  |     |    |      | .35   |     |     | T.  |     |     |    |    |    | 4.50   |
| Burlington.....                            | Delaware.....   |               |   |   |     |   | * .85  |      |    |   | * .12 |     | .40  | .42 | .25  |    | .68    | .58  |     | .25  |     |    |      | .32   |     |     | T.  |     |     |    |    |    | 3.87   |
| Camp Dix   .....                           | Delaware.....   |               |   |   |     |   | .10    | .30  |    |   | .24   |     | .26  | .78 |      |    | 1.82   |      |     | .32  |     |    | 1.11 | .21   |     | .30 |     |     |     |    |    |    | 5.44   |
| Hammonton.....                             | Mullica.....    |               |   |   |     |   | .65    | .67  |    |   | .11   |     | .22  | .79 |      |    | 1.35   | .71  |     | .55  |     |    |      | .54   |     |     |     |     |     |    |    |    | 5.59   |
| Hightstown.....                            | Raritan.....    |               |   |   |     |   | * .61  |      |    |   | .35   |     | .42  | .38 | .23  |    | .70    | .49  |     | .66  |     |    |      | 1.05  | .22 |     | .03 |     |     |    |    |    | 5.14   |
| Imlaystown.....                            | Delaware.....   |               |   |   |     |   | * .50  | T.   |    |   | .13   | .04 | .36  | .40 | .28  |    | .81    | .68  | .03 | .28  |     |    |      | .20   |     |     | .05 | .03 |     |    |    |    | 3.79   |
| Indian Mills.....                          | Mullica.....    | T.            |   |   |     |   | .45    | .55  |    |   | .18   |     | .28  | .51 | .26  |    | 1.44   | .43  |     | .40  |     |    |      | .12   | .32 |     | .03 |     |     |    |    |    | 4.97   |
| Lakewood.....                              | Metedeconk..... |               |   |   |     |   | .40    | .85  |    |   | .11   |     | .38  | .48 | .20  |    | 1.15   | .46  |     | .22  |     |    | T.   | .20   | .08 |     | T.  | .04 |     |    |    |    | 4.57   |
| Lumberton.....                             | Delaware.....   |               |   |   |     |   | .32    | .56  |    |   | .09   |     | .35  | .45 | .19  |    | 1.10   | .57  |     | .29  | .01 |    |      | .11   | .22 |     | .01 | T.  |     |    |    |    | 4.27   |
| Moorestown.....                            | Delaware.....   |               |   |   |     |   | * 1.50 |      |    |   | .10   |     | .30  | .20 | .20  |    | 1.25   |      |     | .15  |     |    |      | .05   | .10 | .02 |     |     |     |    |    |    | 3.87   |
| Northfield.....                            | Coast.....      |               |   |   |     |   | .42    | 1.04 |    |   | .10   |     | .13  | .67 | .19  |    | .87    | .96  |     | .85  | .03 |    |      | .03   | .29 |     | .01 |     |     |    |    |    | 5.59   |
| Pleasantville.....                         | Coast.....      |               |   |   |     |   | .48    | .81  |    |   | .12   |     | .15  | .75 | T.   |    | 1.26   | .49  |     | .76  |     |    |      | .34   |     |     | T.  |     |     |    |    |    | 5.16   |
| Trenton***.....                            | Delaware.....   |               |   |   |     |   | .64    | .21  |    |   | .13   |     | .40  | .56 |      |    | .93    |      |     | .16  |     |    | T.   | .60   |     |     | .02 |     |     |    |    |    | 3.70   |
| Tuckerton.....                             | Coast.....      |               |   |   |     |   | * 1.30 |      |    |   | .10   |     | .15  | .04 |      |    | 1.82   |      |     | .50  |     |    |      | .40   |     |     |     |     |     |    |    |    | 4.31   |
| Vineland.....                              | Maurice.....    |               |   |   |     |   | * 1.40 |      |    |   | .15   |     | .24  |     |      |    | 2.25   | .60  |     | .63  |     |    |      | .09   | .32 |     |     |     |     |    |    |    | 5.68   |
| Philadelphia, Pa.....                      | Delaware.....   | T.            |   |   |     |   | .61    | .39  |    |   | .09   | T.  | .30  | .61 |      |    | 1.08   | T.   |     | .27  |     |    | T.   | .22   |     |     | .01 |     |     |    |    |    | 3.58   |
| <i>The Sea Coast.</i>                      |                 |               |   |   |     |   |        |      |    |   |       |     |      |     |      |    |        |      |     |      |     |    |      |       |     |     |     |     |     |    |    |    |        |
| Asbury Park.....                           | Coast.....      |               |   |   |     |   | * .90  |      |    |   | .11   |     | .37  | .68 |      |    | * 1.30 |      |     | .25  |     |    |      | .34   |     |     | T.  |     |     |    |    |    | 3.95   |
| Atlantic City***.....                      | do.....         |               |   |   |     |   | .94    | .81  |    |   | .12   | T.  | .17  | .83 |      |    | 1.52   | .26  |     | 1.16 |     |    | T.   | .01   | .42 |     | .01 |     |     |    |    |    | 6.31   |
| Cape May City.....                         | do.....         |               |   |   | .03 |   | .91    | .97  |    |   | .13   |     | .16  | .72 | .07  |    | .85    | 1.06 |     | 1.02 |     |    |      | .16   | .59 |     | .04 | .02 |     |    |    |    | 6.73   |
| Long Branch**.....                         | do.....         |               |   |   |     |   | .70    | .20  |    |   | .09   |     | .38  | .60 | .01  |    | 1.44   | .02  |     | .01  |     |    |      | .39   |     |     | .05 |     |     |    |    |    | 3.91   |
| Sandy Hook***.....                         | do.....         |               |   |   |     |   | .35    | .31  |    |   | .08   | T.  | .32  | .57 | .01  |    | .90    | T.   |     | .13  |     |    | T.   | .70   |     |     | .18 | .01 |     |    |    |    | 3.56   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture.                                  |                                            | Sun-<br>shine |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|--------------------------------------------|--------------------------------------------|---------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. |               |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. |                                            |                                            |               |
| Atlantic City.....    | 30.07         | 30.76    | 15    | 29.01   | 7     | 21               | 58              | nw.        | 7                                          | 73                                         | 59            |
| Cape May City.....    | 30.09         | 30.75    | 15    | 29.21   | 7     | 9                | 42              | nw.        | 31                                         | 82                                         | 78            |
| Long Branch.....      | .....         | 30.72    | 15    | 29.04   | 7     | .....            | 54              | nw.        | 28                                         | 70                                         | 48            |
| Newark.....           | .....         | .....    | ..... | .....   | ..... | .....            | .....           | .....      | .....                                      | 71                                         | 66            |
| New York, N. Y.....   | 30.03         | 30.77    | 15    | 29.04   | 7     | 22               | 74              | nw.        | 19                                         | 71                                         | 65            |
| Philadelphia, Pa..... | 30.06         | 30.80    | 15    | 29.10   | 7     | 12               | 38              | nw.        | 19                                         | 69                                         | 59            |
| Ridgefield.....       | 30.03         | 30.75    | 15    | 29.06   | ..... | .....            | .....           | .....      | .....                                      | .....                                      | .....         |
| Sandy Hook.....       | 30.03         | 30.78    | 15    | 29.02   | 7     | 17               | 73              | .....      | 16                                         | 79                                         | 78            |
| Trenton.....          | 30.04         | 30.76    | 15    | 29.07   | 7     | 14               | 58              | s.         | 16                                         | 71                                         | 64            |
| .....                 | .....         | .....    | ..... | .....   | ..... | .....            | .....           | .....      | .....                                      | .....                                      | 65            |

\* 7 a. m. † 9 p. m.



Daily Temperatures for March, 1923.

| Stations.                            | 1       | 2  | 3  | 4  | 5  | 6  | 7    | 8  | 9  | 10   | 11   | 12 | 13 | 14 | 15   | 16 | 17   | 18   | 19   | 20   | 21 | 22 | 23   | 24 | 25   | 26   | 27 | 28 | 29   | 30 | 31   | Mean.             |                   |
|--------------------------------------|---------|----|----|----|----|----|------|----|----|------|------|----|----|----|------|----|------|------|------|------|----|----|------|----|------|------|----|----|------|----|------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |      |    |    |      |      |    |    |    |      |    |      |      |      |      |    |    |      |    |      |      |    |    |      |    |      |                   |                   |
| Belvidere.....                       | Maximum | 41 | 47 | 59 | 57 | 49 | 34   | 35 | 38 | 41   | 38   | 48 | 40 | 39 | 36   | 41 | 53   | 49   | 52   | 45   | 35 | 55 | 64   | 73 | 58   | 52   | 49 | 49 | 35   | 30 | 40   | 31                | 45.6              |
|                                      | Minimum | 17 | 27 | 25 | 37 | 32 | 18   | 16 | 15 | 3    | 20   | 21 | 33 | 32 | 26   | 17 | .... | 28   | 22   | 32   | 12 | 27 | 33   | 45 | 35   | 26   | 32 | 32 | 19   | 8  | 27   | 17                | 24.0 <sup>b</sup> |
| Charlotteburg.....                   | Maximum | 43 | 46 | 61 | 57 | 44 | 34   | 31 | 30 | 33   | 39   | 47 | 42 | 43 | 40   | 37 | 54   | 45   | 49   | 43   | 37 | 54 | 64   | 72 | 62   | 49   | 38 | 51 | 49   | 33 | 42   | 41                | 45.5              |
|                                      | Minimum | 16 | 30 | 29 | 35 | 29 | 14   | 14 | 16 | 3    | 12   | 22 | 29 | 30 | 28   | 14 | 25   | 25   | 31   | 29   | 8  | 24 | 27   | 47 | 32   | 24   | 26 | 16 | 5    | 23 | 14   | 22.7              |                   |
| Dover.....                           | Maximum | 42 | 46 | 60 | 59 | 45 | .... | 33 | 34 | 36   | 38   | 49 | 48 | 44 | 36   | 36 | 55   | 44   | 50   | 44   | 33 | 53 | 65   | 74 | 53   | 50   | 42 | 52 | 49   | 34 | 44   | 34                | 46.1 <sup>a</sup> |
|                                      | Minimum | 20 | 29 | 29 | 40 | 24 | 16   | 16 | 16 | 5    | 19   | 28 | 32 | 34 | 26   | 18 | 29   | 24   | 20   | 17   | 11 | 25 | 31   | 47 | 32   | 26   | 29 | 13 | 7    | 25 | 11   | 23.5              |                   |
| Layton.....                          | Maximum | 40 | 43 | 61 | 51 | 58 | 30   | 29 | 33 | 35   | 40   | 48 | 38 | 39 | 35   | 37 | 53   | 51   | 48   | 44   | 32 | 51 | 58   | 66 | 56   | 48   | 48 | 54 | 54   | 34 | 43   | 41                | 45.3              |
|                                      | Minimum | 10 | 27 | 26 | 37 | 29 | 13   | 15 | 16 | -3   | 13   | 11 | 30 | 32 | 26   | 8  | 28   | 18   | 13   | 26   | 9  | 28 | 28   | 41 | 34   | 23   | 29 | 17 | 16   | 6  | 9    | 17                | 20.4              |
| Newton.....                          | Maximum | 40 | 43 | 58 | 55 | 55 | 28   | 35 | 33 | 35   | 38   | 45 | 40 | 40 | 36   | 36 | 53   | 50   | 49   | .... | 32 | 52 | 61   | 71 | 55   | 48   | 42 | 51 | 53   | 32 | 44   | 47                | 45.2              |
|                                      | Minimum | 20 | 31 | 37 | 27 | 15 | 15   | 15 | 15 | 10   | 22   | 29 | 32 | 32 | 28   | 15 | 27   | 26   | 23   | .... | 10 | 26 | .... | 49 | 35   | 26   | 28 | 20 | 15   | 6  | 25   | 9                 | 23.3              |
| Phillipsburg.....                    | Maximum | 46 | 51 | 65 | 64 | 55 | 38   | 40 | 38 | 41   | 44   | 53 | 50 | 44 | .... | 45 | 60   | 49   | 52   | 50   | 39 | 62 | 70   | 78 | .... | .... | 54 | 57 | .... | 40 | 43   | ....              | 51.1 <sup>a</sup> |
|                                      | Minimum | 25 | 32 | 30 | 38 | 26 | 19   | 20 | 18 | 11   | 26   | 26 | 35 | 34 | 28   | 23 | 29   | 26   | 20   | 15   | 29 | 35 | 45   | 36 | .... | 30   | 28 | 15 | 11   | 27 | 15   | 26.2 <sup>a</sup> |                   |
| Sussex.....                          | Maximum | 45 | 48 | 63 | 52 | 53 | 45   | 40 | 34 | 39   | 38   | 50 | 37 | 40 | 35   | 34 | 52   | 50   | 50   | 45   | 36 | 56 | 59   | 65 | 54   | 52   | 42 | 50 | 50   | 43 | 46   | 40                | 46.7              |
|                                      | Minimum | 10 | 25 | 22 | 28 | 31 | 18   | 16 | 17 | -2   | 12   | 22 | 30 | 33 | 28   | 12 | 29   | 26   | .... | 30   | 11 | 21 | 29   | 45 | 35   | 24   | 28 | 18 | 17   | 8  | 23   | 17                | 22.1 <sup>a</sup> |
| The Red Sandstone Plain.             |         |    |    |    |    |    |      |    |    |      |      |    |    |    |      |    |      |      |      |      |    |    |      |    |      |      |    |    |      |    |      |                   |                   |
| Bergen Point.....                    | Maximum | 44 | 50 | 65 | 59 | 50 | 32   | 37 | 35 | 39   | 40   | 48 | 41 | 42 | 43   | 36 | 57   | 56   | 47   | 47   | 37 | 57 | 67   | 75 | 65   | 50   | 41 | 51 | 47   | 35 | 42   | 39                | 47.5              |
|                                      | Minimum | 26 | 32 | 32 | 36 | 32 | 19   | 22 | 21 | 18   | 29   | 32 | 35 | 35 | 31   | 24 | 31   | 32   | 32   | 26   | 15 | 30 | 38   | 47 | 39   | 30   | 31 | 32 | 20   | 11 | 27   | 21                | 28.6              |
| Boonton§§.....                       | Maximum | 45 | 46 | 60 | 58 | 38 | 23   | 34 | 33 | 37   | 39   | 47 | 36 | 41 | 39   | 40 | 54   | .... | 45   | 34   | 53 | 63 | 71   | 50 | 49   | 41   | 51 | 36 | 35   | 42 | 39   | 44                | 1 <sup>b</sup>    |
|                                      | Minimum | 17 | 25 | 25 | 30 | 31 | 17   | 15 | 16 | 6    | 15   | 22 | 30 | 31 | 29   | 18 | 24   | 28   | 19   | 21   | 11 | 15 | 29   | 36 | 35   | 27   | 27 | 28 | 18   | 8  | 11   | 17                | 22.0              |
| Elizabeth.....                       | Maximum | 45 | 50 | 64 | 57 | 46 | 35   | 37 | 38 | 40   | 39   | 50 | 39 | 42 | 41   | 37 | 57   | 56   | 51   | 48   | 36 | 57 | 70   | 77 | 62   | 52   | 45 | 53 | 51   | 35 | 42   | 41                | 48.2              |
|                                      | Minimum | 23 | 30 | 30 | 41 | 34 | 20   | 20 | 16 | 13   | 25   | 28 | 35 | 35 | 31   | 22 | 30   | 32   | 25   | 32   | 14 | 29 | 37   | 54 | 40   | 29   | 32 | 32 | 24   | 11 | 25   | 20                | 28.0              |
| Flemington.....                      | Maximum | 43 | 53 | 66 | 65 | 61 | 38   | 38 | 38 | 43   | 40   | 51 | 45 | 39 | 40   | 45 | 56   | 52   | 56   | 55   | 37 | 56 | 68   | 79 | 57   | 55   | 58 | 55 | 54   | 36 | 43   | 41                | 50.3              |
|                                      | Minimum | 24 | 32 | 29 | 37 | 34 | 20   | 19 | 20 | 8    | 22   | 28 | 34 | 33 | 30   | 23 | 31   | 32   | 24   | 29   | 14 | 27 | 34   | 49 | 35   | 28   | 31 | 30 | 24   | 11 | 26   | 19                | 27.0              |
| Highwood.....                        | Maximum | 40 | 45 | 58 | 50 | 53 | 30   | 34 | 34 | 36   | 38   | 44 | 38 | 40 | 38   | 35 | 56   | 52   | 46   | 47   | 35 | 53 | 60   | 75 | 57   | 47   | 42 | 52 | 47   | 34 | 39   | 37                | 44.9              |
|                                      | Minimum | 17 | 27 | 30 | 38 | 29 | 20   | 20 | 15 | 8    | 20   | 25 | 34 | 34 | 28   | 19 | 30   | 30   | 24   | 26   | 15 | 30 | 36   | 47 | 37   | 28   | 30 | 32 | 17   | 11 | 29   | 20                | 26.0              |
| Jersey City.....                     | Maximum | 44 | 50 | 64 | 60 | 46 | 31   | 36 | 37 | 38   | 40   | 48 | 41 | 45 | 40   | 34 | 57   | 46   | 47   | 49   | 34 | 54 | 68   | 77 | 55   | 49   | 43 | 51 | 46   | 34 | 46   | 35                | 46.6              |
|                                      | Minimum | 26 | 31 | 37 | 42 | 31 | 21   | 21 | 22 | 20   | 30   | 34 | 32 | 35 | 31   | 24 | 33   | 31   | 26   | 14   | 30 | 43 | 49   | 36 | 31   | 30   | 31 | 31 | 19   | 10 | 29   | 29                | 29.1              |
| Lambertville.....                    | Maximum | 39 | 50 | 64 | 64 | 51 | 34   | 34 | 33 | .... | 40   | 48 | 41 | 40 | 39   | 42 | 55   | 54   | 57   | 45   | 33 | 54 | 67   | 76 | 53   | 53   | 43 | 52 | 48   | 36 | 46   | 42                | 47.8 <sup>a</sup> |
|                                      | Minimum | 26 | 31 | 34 | 41 | 33 | 19   | 19 | 20 | 16   | .... | 29 | 34 | 33 | 31   | 21 | 31   | 27   | 28   | 13   | 26 | 40 | 56   | 55 | 27   | 31   | 29 | 22 | 10   | 26 | 18   | 27.8 <sup>a</sup> |                   |
| Little Falls§§.....                  | Maximum | 47 | 49 | 62 | 63 | 40 | 23   | 34 | 33 | 35   | 40   | 50 | 37 | 37 | 35   | 42 | 60   | 46   | 45   | 52   | 37 | 47 | 66   | 79 | .... | 55   | 40 | 50 | 37   | 34 | 40   | 28                | 44.8 <sup>a</sup> |
|                                      | Minimum | 19 | 29 | 28 | 37 | 33 | 20   | 18 | 16 | 6    | 23   | 29 | 32 | 33 | 32   | 20 | 27   | 31   | 22   | 29   | 14 | 18 | 33   | 40 | 38   | 29   | 31 | 30 | 21   | 10 | 15   | 19                | 25.2              |
| Newark.....                          | Maximum | 45 | 50 | 64 | 61 | 43 | 32   | 30 | 33 | 37   | 39   | 47 | 37 | 44 | 38   | 35 | 46   | 45   | 46   | 47   | 35 | 56 | 68   | 76 | 51   | 49   | 40 | 53 | 41   | 36 | 44   | 36                | 45.7              |
|                                      | Minimum | 27 | 34 | 37 | 43 | 23 | 14   | 19 | 27 | 20   | 30   | 35 | 35 | 35 | 28   | 25 | 36   | 33   | 31   | 22   | 19 | 31 | 43   | 48 | 37   | 34   | 32 | 35 | 14   | 14 | 32   | 16                | 29.3              |
| New Brunswick.....                   | Maximum | 41 | 52 | 66 | 63 | 65 | 39   | 36 | 36 | 36   | 41   | 47 | 42 | 40 | 40   | 39 | 59   | 60   | 53   | 51   | 33 | 57 | 70   | 79 | 62   | 52   | 46 | 52 | 50   | 33 | 44   | 41                | 49.2              |
|                                      | Minimum | 24 | 30 | 31 | 41 | 35 | 19   | 20 | 18 | 12   | 24   | 29 | 34 | 34 | 31   | 21 | 30   | 32   | 24   | 31   | 15 | 28 | 38   | 53 | 38   | 27   | 32 | 30 | 23   | 10 | 27   | 19                | 27.7              |
| Paterson.....                        | Maximum | 44 | 47 | 64 | 57 | 50 | 34   | 36 | 38 | 39   | 39   | 49 | 40 | 42 | 41   | 37 | 55   | 36   | 50   | 48   | 37 | 58 | 67   | 78 | 58   | 53   | 42 | 54 | 52   | 37 | 40   | 38                | 47.1              |
|                                      | Minimum | 24 | 33 | 31 | 40 | 33 | 19   | 19 | 20 | 17   | 24   | 29 | 34 | 36 | 32   | 22 | 31   | 32   | .... | 31   | 15 | 29 | 35   | 49 | 39   | 30   | 31 | 31 | 21   | 11 | 28   | 21                | 28.2 <sup>a</sup> |
| Plainfield.....                      | Maximum | 43 | 50 | 64 | 61 | 51 | 30   | 36 | 39 | 38   | 40   | 48 | 37 | 41 | 40   | 38 | 57   | 50   | 50   | 48   | 34 | 54 | 69   | 76 | 52   | 51   | 45 | 52 | 47   | 34 | 44   | 35                | 46.9              |
|                                      | Minimum | 21 | 29 | 28 | 37 | 30 | 18   | 18 | 20 | 4    | 19   | 29 | 31 | 34 | 30   | 19 | 32   | 32   | 21   | 26   | 13 | 27 | 34   | 50 | 38   | 26   | 29 | 30 | 19   | 10 | 27   | 19                | 25.8              |
| Ridgefield.....                      | Maximum | 44 | 48 | 60 | 55 | 44 | 23   | 34 | 34 | 35   | 39   | 46 | 36 | 41 | 38   | 35 | 56   | 44   | 48   | 46   | 34 | 56 | 62   | 75 | 52   | 47   | 38 | 53 | 48   | 33 | 41   | 31                | 44.4              |
|                                      | Minimum | 20 | 31 | 31 | 40 | 23 | 18   | 20 | 17 | 13   | 26   | 30 | 33 | 33 | 25   | 21 | 35   | 29   | 27   | 17   | 14 | 30 | 39   | 46 | 32   | 28   | 28 | 29 | 12   | 10 | 29   | 12                | 25.7              |
| Somerville.....                      | Maximum | 45 | 53 | 65 | 63 | 59 | 36   | 36 | 36 | 39   | 39   | 48 | 40 | 40 | 41   | 42 | 57   | 46   | 54   | 47   | 35 | 55 | 69   | 77 | 58   | 54   | 49 | 54 | 50   | 35 | 43   | 40                | 48.5              |
|                                      | Minimum | 23 | 28 | 29 | 38 | 35 | 20   | 12 | 6  | 21   | 22   | 34 | 34 | 28 | 20   | 30 | 25   | 22   | 29   | 15   | 25 | 36 | 49   | 38 | 26   | 28   | 29 | 23 | 11   | 27 | 20   | 25.9              |                   |
| South Orange.....                    | Maximum | 41 | 48 | 61 | 60 | 47 | 27   | 35 | 34 | 36   | 40   | 45 | 38 | 44 | 39   | 35 | 56   | 42   | 47   | 48   | 33 | 54 | 68   | 74 | 51   | 49   | 40 | 52 | 50   | 34 | 44   | 45                | 45.7              |
|                                      | Minimum | 25 | 33 | 33 | 40 | 25 | 19   | 21 | 21 | 15   | 26   | 31 | 34 | 35 | 27   | 22 | 34   | 30   | 27   | 17   | 14 | 28 | 38   | 48 | 34   | 30   | 30 | 34 | 14   | 10 | .... | 10                | 26.8 <sup>a</sup> |
| New York, N. Y.....                  | Maximum | 43 | 48 | 63 | 60 | 44 | 27   | 36 | 35 | 38   | 39   | 47 | 42 | 47 | 40   | 34 | 57   | 43   | 44   | 49   | 34 | 53 | 66   | 73 | 51   | 47   | 42 | 50 | 46   | 32 | 46   | 35                | 45.5              |
|                                      | Minimum | 26 | 32 | 38 | 43 | 24 | 19   | 21 | 22 | 22   | 30   | 35 | 32 | 36 | 28   | 24 | 34   | 31   | 32   | 18   | 14 | 31 | 45   | 48 | 36   | 31   | 31 | 32 | 12   | 10 | 30   | 13                | 28.4              |
| The Southern Interior.               |         |    |    |    |    |    |      |    |    |      |      |    |    |    |      |    |      |      |      |      |    |    |      |    |      |      |    |    |      |    |      |                   |                   |
| Belle Plain.....                     | Maximum | 48 | 50 | 74 | 69 | 65 | 41   | 40 | 38 | 40   | 47   | 54 | 68 | 63 | 46   | 43 | 60   | 57   | 48   | 51   | 35 | 55 | 74   | 78 | 57   | 54   | 63 | 52 | 48   | 42 | 64   | 51                | 54.0              |
|                                      | Minimum | 26 | 28 | 35 | 43 | 36 | 24   | 31 | 21 | .... | 22   | 26 | 37 | 41 | 34   | 18 | 31   | 34   | 22   | 34   | 16 | 27 | 42   | 55 | 38   | 23   | 37 | 27 | 36   | 13 | 27   | 22                | 30.2 <sup>a</sup> |
| Bridgeton.....                       | Maximum | 48 | 60 | 75 | 72 | 65 | 45   | 43 | 37 | 42   | 45   | 55 | 72 | 43 | 47   | 48 | 58   | 56   | 54   | 50   | 38 | 57 | 75   | 81 | 69   | 58   | 54 | 50 | 38   | 67 | 54   | 55.2              |                   |
|                                      | Minimum | 28 | 38 | 37 | 35 | 34 | 25   | 30 | 25 | 18   | 28   | 37 | 37 | 32 | 36   | 25 | 32   | 35   | 23   | 28   | 13 | 22 | 43   | 57 | 37   | 30   | 38 | 29 | 32   | 15 | 29   | 21                | 30.6              |
| Burlington.....                      | Maximum | 44 |    |    |    |    |      |    |    |      |      |    |    |    |      |    |      |      |      |      |    |    |      |    |      |      |    |    |      |    |      |                   |                   |

\* , b , c , etc., indicate, respectively, 1, 2, 3, etc., days missing from the record, to the preceding day, on which it almost always occurs. §§ Instruments are read in the morning; the maximum temperature then read is charged



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVIII.

APRIL, 1923.

No. 4.

### GENERAL SUMMARY.

April opened with the lowest temperature readings ever recorded in that month in New Jersey, being some five degrees lower than previous records. The low readings ranged from 3° to 16° from the extreme north to the extreme south of the State on the morning of the 1st. On the 14th, in central portions of the State, there was a moderate fall of snow, of brief duration, and remaining on the ground but a short time. These winter conditions contributed to a backward spring, which with drying winds, and no surplus moisture, retarded the growth of vegetation and germination. Three warm days, the 20th, 21st and 22d, were attended by maximum temperatures mostly in the 80's, but cooler weather again followed. From the 5th to the 28th there was very little rainfall, except a moderate amount on the 13th and 14th in central sections, and drought conditions were becoming pronounced when rain set in on the 29th. Clear, open weather was considerably in excess of normal, and was especially favorable for outside work.

Storm warnings were displayed along the coast on the 7th, 13th and 14th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations was 50.0°, which was 0.5° above the normal. The highest temperature was 91° at Paterson on the 21st, and the lowest, 3° at Culvers Lake on the 1st. The highest mean monthly temperature was 52.4° at Bridgeton, Lumberton and Paterson, and the lowest 47.4° at Long Branch. The greatest daily range of temperature was 48° at Layton on the 26th.

The temperature departure from the normal for the year 1923 to date, by sections, is: The Highlands, -1.2°; Red Sandstone Plain, -1.5°; Southern Interior, -0.2°; Sea Coast, -0.6°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 46 stations, was 3.55 inches, which was 0.10 inch below the normal. The mean total snowfall was 0.5 inch, which was 0.3 inch below the normal. The greatest monthly precipitation was 6.59 inches at Camp Dix, and the least, 2.27 inches at Phillipsburg. The greatest amount of precipitation in any 24 consecutive hours was 3.21 inches at Chatham on the 29th. The mean number of days on which 0.01 inch or more of precipitation occurred was 9 or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1923 to date, by sections, is: The Highlands, -1.55 inches; Red Sandstone Plain, -0.35 inch; Southern Interior, +2.56 inches; Sea Coast, +1.57 inches.

### WIND.

The prevailing wind direction was from the southwest, with a velocity of 16 miles per hour, which was 3 miles above the normal. The highest wind velocity, sustained for 5 consecutive minutes, was 65 miles per hour from the south at Sandy Hook on the 28th. High winds were reported also on the 5th, 14th, and 22d.

### SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 16, which was 5 more than the normal; partly cloudy, 6, which was 4 less than the normal; cloudy, 8, which was 1 less than the normal. The per cent of possible sunshine was 65 which was 8 per cent above the normal.

MAY 28

### MISCELLANEOUS.

The mean daily stage of the Delaware River at Phillipsburg was 5.0 feet, and the highest stage 13.5 feet on the 7th. At Trenton the mean stage was 3.2 feet, which was 0.7 foot below the normal; the highest stage was 8.1 feet on the 7th.

The mean atmospheric pressure, reduced to sea level, was 29.99 inches, which was 0.01 inch below the normal. The highest reading was 30.70 inches at Cape May on the 1st, and the lowest, 29.33 inches, at Trenton on the 29th.

Dense fog was reported on the 4th, 5th, 13th, and 28th. Sleet was reported on the 13th, 14th and 15th. Solar halos were observed on the 2d, 3d, 4th, 7th, 9th, 12th, 13th, 17th, 19th, and 27th. Lunar halos were observed on the 2d, and 27th. Thunderstorms occurred on the 4th, 5th, and 28th.

A violent storm of severe proportions hit Hunterdon County on April 5th, 1923. It became extremely dark, and rain fell almost as a solid sheet of water accompanied by a terrific wind, and by lightning and thunder. The most violent part of the storm did not last more than ten minutes and within half an hour the rain had turned to a gentle April shower, but in its wake damage of many thousand dollars in the County. It was not of unusual violence in other portions of the State. At the same time a severe wind storm occurred in Bordentown.

Hail fell at Flemington on the 5th.

### COMPARATIVE DATA FOR APRIL.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 48.4         | 88       | 26      | 2.79           | 2.86      | 0.89   | .....        | .....          | .....   | .....                  |
| 1886..... | 50.6         | 86       | 27      | 3.40           | 5.48      | 1.86   | .....        | .....          | .....   | .....                  |
| 1887..... | 47.3         | 87       | 16      | 2.70           | 3.77      | 0.91   | .....        | .....          | 12      | 7                      |
| 1888..... | 47.9         | 92       | 22      | 3.28           | 4.68      | 1.89   | .....        | .....          | 6       | 9                      |
| 1889..... | 51.2         | 83       | 25      | 5.32           | 7.25      | 2.92   | .....        | .....          | 14      | 12                     |
| 1890..... | 50.4         | 86       | 21      | 2.65           | 4.58      | 1.89   | .....        | .....          | 7       | 8                      |
| 1891..... | 52.0         | 88       | 20      | 2.19           | 3.80      | 1.39   | 13           | 11             | 6       | 8                      |
| 1892..... | 49.3         | 87       | 19      | 2.49           | 4.41      | 1.05   | 9            | 13             | 8       | 8                      |
| 1893..... | 49.2         | 82       | 19      | 5.21           | 7.12      | 2.97   | 9            | 10             | 12      | 11                     |
| 1894..... | 50.3         | 88       | 10      | 3.09           | 4.86      | 1.71   | 12           | 9              | 9       | 9                      |
| 1895..... | 49.1         | 89       | 19      | 4.88           | 7.75      | 3.47   | 11           | 7              | 12      | 10                     |
| 1896..... | 52.4         | 98       | 12      | 1.35           | 2.30      | 0.64   | 13           | 10             | 7       | 7                      |
| 1897..... | 50.4         | 89       | 19      | 3.79           | 6.98      | 2.17   | 14           | 11             | 5       | 9                      |
| 1898..... | 47.8         | 81       | 13      | 3.74           | 4.94      | 2.17   | 8            | 11             | 11      | 11                     |
| 1899..... | 49.9         | 88       | 18      | 1.73           | 3.25      | 0.48   | 16           | 10             | 4       | 4                      |
| 1900..... | 50.8         | 82       | 18      | 2.29           | 3.03      | 1.59   | 14           | 9              | 7       | 6                      |
| 1901..... | 48.3         | 89       | 23      | 6.31           | 10.22     | 3.46   | 8            | 7              | 15      | 12                     |
| 1902..... | 50.2         | 93       | 20      | 3.62           | 5.99      | 2.45   | 10           | 11             | 9       | 9                      |
| 1903..... | 50.9         | 92       | 18      | 3.97           | 7.03      | 2.40   | 13           | 7              | 10      | 9                      |
| 1904..... | 46.7         | 85       | 16      | 3.42           | 4.71      | 2.00   | 9            | 12             | 9       | 10                     |
| 1905..... | 49.9         | 84       | 18      | 2.88           | 4.03      | 1.53   | 12           | 11             | 7       | 10                     |
| 1906..... | 51.2         | 87       | 17      | 3.64           | 6.42      | 1.17   | 15           | 10             | 5       | 8                      |
| 1907..... | 45.2         | 83       | 19      | 3.78           | 8.67      | 2.06   | 11           | 9              | 10      | 11                     |
| 1908..... | 51.2         | 93       | 13      | 2.72           | 3.86      | 1.42   | 14           | 9              | 7       | 11                     |
| 1909..... | 50.2         | 88       | 17      | 5.97           | 8.90      | 3.84   | 10           | 11             | 9       | 13                     |
| 1910..... | 53.5         | 88       | 20      | 5.34           | 7.56      | 3.43   | 9            | 11             | 10      | 12                     |
| 1911..... | 47.4         | 88       | 14      | 4.11           | 5.58      | 2.87   | 10           | 10             | 10      | 11                     |
| 1912..... | 50.4         | 82       | 18      | 3.56           | 6.02      | 1.81   | 9            | 10             | 11      | 14                     |
| 1913..... | 52.1         | 89       | 19      | 5.78           | 8.53      | 4.14   | 14           | 7              | 9       | 11                     |
| 1914..... | 48.4         | 89       | 15      | 3.67           | 4.78      | 2.35   | 13           | 10             | 7       | 11                     |
| 1915..... | 54.4         | 96       | 20      | 2.71           | 4.13      | 1.28   | 14           | 10             | 6       | 9                      |
| 1916..... | 48.2         | 85       | 20      | 3.32           | 6.14      | 0.90   | 10           | 9              | 11      | 13                     |
| 1917..... | 48.8         | 88       | 15      | 2.39           | 3.54      | 1.19   | 15           | 8              | 7       | 9                      |
| 1918..... | 49.8         | 81       | 18      | 4.05           | 5.79      | 2.88   | 11           | 8              | 11      | 12                     |
| 1919..... | 49.3         | 85       | 10      | 3.06           | 4.79      | 2.20   | 13           | 7              | 10      | 10                     |
| 1920..... | 48.0         | 85       | 10      | 4.50           | 6.06      | 2.90   | 12           | 9              | 9       | 13                     |
| 1921..... | 56.3         | 87       | 15      | 3.57           | 5.20      | 1.86   | 13           | 6              | 11      | 11                     |
| 1922..... | 51.0         | 89       | 18      | 2.55           | 4.12      | 1.57   | 15           | 7              | 8       | 10                     |
| 1923..... | 50.0         | 91       | 5       | 3.55           | 6.69      | 2.27   | 16           | 6              | 8       | 9                      |



## Climatological Data for April, 1923.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                             |        |             | Prevailing direction of wind. | Observers.           |         |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|-----------------------------|--------|-------------|-------------------------------|----------------------|---------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation, in. or more. | Clear. | Pt. cloudy. |                               |                      | Cloudy. |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |             |                               |                      |         |
| Belvidere.....                       | Warren.....     | 289              | 31                       | 49.2 <sup>b</sup>             | -0.6                       | 86       | 21    | 9       | 1     | 43                        | 2.93   | -0.73                      | 1.43                  | 0                          | 20                          | 2      | 8           | .....                         | Samuel J. Hixson.    |         |
| Charlotteburg.....                   | Passaic.....    | 719              | 30                       | 48.2                          | +1.4                       | 86       | 21    | 6       | 1     | 43                        | 3.45   | -0.87                      | 2.27                  | 5                          | 12                          | 10     | 8           | w.                            | Newark Water Dept.   |         |
| Culvers Lake†.....                   | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | 3       | 1     | .....                     | 2.47   | -1.35                      | 1.15                  | T.                         | 10                          | 13     | 11          | 6                             | w.                   |         |
| Dover.....                           | Morris.....     | 600              | 38                       | 48.7                          | +1.3                       | 87       | 21    | 8       | 1     | 40                        | 3.51   | -0.25                      | 1.98                  | T.                         | 8                           | 9      | 15          | 6                             | .....                |         |
| Layton.....                          | Sussex.....     | 480              | 21                       | 48.2                          | +1.0                       | 88       | 21    | 7       | 1     | 48                        | 2.34   | -1.27                      | 1.00                  | 0                          | 9                           | 12     | 4           | 14                            | sw.                  |         |
| Newton.....                          | Sussex.....     | 769              | 39                       | 48.1 <sup>b</sup>             | +0.1                       | 81       | 20    | 7       | 1     | 32                        | 3.41   | +0.04                      | 1.40                  | 0                          | 8                           | 15     | 5           | 10                            | nw.                  |         |
| Phillipsburg.....                    | Warren.....     | 363              | 39                       | .....                         | .....                      | .....    | ..... | 12      | 1     | .....                     | 2.27   | -0.99                      | 0.83                  | 0                          | 8                           | 18     | 6           | 6                             | .....                |         |
| Sussex.....                          | Sussex.....     | 442              | 28                       | 49.4 <sup>b</sup>             | +0.8                       | 88       | 21    | 9       | 1     | 47                        | 2.54   | -0.90                      | 1.45                  | 0                          | 6                           | .....  | .....       | .....                         | sw.                  |         |
| Means and extremes...                |                 |                  |                          | 48.6                          | +0.6                       | 88       | 21    | 3       | 1     | 48                        | 2.86   | -0.79                      | 2.27                  | T.                         | 8                           | 14     | 8           | 8                             | w.                   |         |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |             |                               |                      |         |
| Bergen Point†.....                   | Hudson.....     | 37               | 25                       | 51.2 <sup>d</sup>             | +1.7                       | 88       | 21    | 13      | 1     | 46                        | 2.81   | -1.58                      | 1.25                  | T.                         | 8                           | 8      | 15          | 7                             | sw.                  |         |
| Boonton.....                         | Morris.....     | 400              | 32                       | 47.8                          | -0.9                       | 83       | 21    | 8       | 1     | 45                        | 4.45   | +0.46                      | 3.15                  | 0                          | 6                           | 24     | 0           | 6                             | nw.                  |         |
| Chatham.....                         | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.53   | +0.43                      | 3.21                  | 0                          | 5                           | 23     | 5           | 2                             | .....                |         |
| Elizabeth.....                       | Union.....      | 45               | 43                       | 51.4                          | +0.6                       | 89       | 21    | 11      | 1     | 39                        | 2.84   | -0.84                      | 1.40                  | .....                      | 8                           | 13     | 10          | 7                             | sw.                  |         |
| Flemington.....                      | Hunterdon.....  | 140              | 36                       | 50.9                          | +0.5                       | 87       | 21    | 10      | 1     | 41                        | 3.49   | -0.03                      | 2.03                  | T.                         | 11                          | 17     | 7           | 6                             | sw.                  |         |
| Highwood†.....                       | Bergen.....     | 90               | 34                       | 49.0                          | +0.5                       | 84       | 21    | 11      | 1     | 38                        | 2.94   | -0.49                      | 1.24                  | 0                          | 7                           | 21     | 3           | 6                             | nw.                  |         |
| Jersey City.....                     | Hudson.....     | 10               | 24                       | 50.8                          | +0.8                       | 89       | 21    | 12      | 1     | 40                        | 2.39   | -1.77                      | 1.20                  | T.                         | 8                           | 14     | 9           | 7                             | nw.                  |         |
| Lambertville.....                    | Hunterdon.....  | 370              | 35                       | 49.7                          | -1.0                       | 83       | 21    | 10      | 1     | 40                        | 4.21   | +0.63                      | 1.94                  | 2.5                        | 12                          | 13     | 8           | 9                             | sw.                  |         |
| Little Falls.....                    | Passaic.....    | 180              | 19                       | 51.6 <sup>d</sup>             | +1.7                       | 90       | 21    | 11      | 1     | 47                        | 4.07   | -0.05                      | 2.90                  | 0                          | 9                           | 16     | 9           | 5                             | nw.                  |         |
| Newark.....                          | Essex.....      | 159              | 80                       | 50.9                          | +0.9                       | 88       | 21    | 13      | 1     | 38                        | 3.97   | +0.23                      | 1.54                  | T.                         | 12                          | 12     | 9           | 9                             | sw.                  |         |
| New Brunswick.....                   | Middlesex.....  | 110              | 69                       | 50.6                          | +1.0                       | 87       | 21    | 11      | 1     | 44                        | 2.55   | -1.19                      | 1.45                  | T.                         | 11                          | 17     | 7           | 6                             | w.                   |         |
| New Milford†.....                    | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.00   | .....                      | 1.56                  | .....                      | 6                           | .....  | .....       | .....                         | Hackensack Water Co. |         |
| Paterson.....                        | Passaic.....    | 80               | 51                       | 52.4                          | +1.9                       | 91       | 21    | 13      | 1     | 40                        | 2.82   | -0.74                      | 1.68                  | T.                         | 7                           | 1      | 0           | 29                            | sw.                  |         |
| Plainfield.....                      | Union.....      | 120              | 34                       | 49.6                          | 0                          | 88       | 21    | 10      | 1     | 44                        | 2.82   | -1.08                      | 1.49                  | T.                         | 9                           | 14     | 10          | 6                             | nw.                  |         |
| Ridgefield†.....                     | Bergen.....     | 70               | 7                        | 48.6                          | .....                      | 87       | 21    | 11      | 1     | 36                        | 2.36   | .....                      | 1.00                  | T.                         | 9                           | 14     | 8           | 8                             | nw.                  |         |
| Somerville.....                      | Somerset.....   | 70               | 39                       | 50.0                          | +0.5                       | 88       | 21    | 11      | 1     | 45                        | 3.23   | -0.26                      | 2.08                  | T.                         | 7                           | 18     | 0           | 12                            | nw.                  |         |
| South Orange.....                    | Essex.....      | 200              | 52                       | 49.5                          | +1.0                       | 84       | 21    | 11      | 1     | 37                        | 2.85   | -0.72                      | 1.72                  | 0                          | 10                          | 20     | 6           | 4                             | w.                   |         |
| Woodcliff Lake†.....                 | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.66   | .....                      | 1.81                  | .....                      | 7                           | .....  | .....       | .....                         | Hackensack Water Co. |         |
| New York, N. Y.....                  | .....           | 365              | 52                       | 49.4                          | 0                          | 83       | 21    | 12      | 1     | 36                        | 2.07   | -1.23                      | 0.98                  | T.                         | 9                           | 9      | 12          | 9                             | nw.                  |         |
| Means and extremes...                |                 |                  |                          | 50.3                          | +0.7                       | 91       | 21    | 8       | 1     | 47                        | 3.22   | -0.47                      | 3.21                  | 0.2                        | 8                           | 15     | 7           | 8                             | nw.                  |         |
| The Southern Interior.               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |             |                               |                      |         |
| Belle Plain.....                     | Cape May.....   | 30               | 28                       | 50.1                          | -0.5                       | 82       | 21    | 11      | 1     | 40                        | 4.37   | +0.72                      | 1.18                  | T.                         | 11                          | 21     | 2           | 7                             | sw.                  |         |
| Bridgeton.....                       | Cumberland..... | 30               | 41                       | 52.4                          | -0.3                       | 85       | 20    | 16      | 1     | 39                        | 3.66   | +0.14                      | 1.20                  | T.                         | 9                           | 21     | 2           | 7                             | w.                   |         |
| Burlington.....                      | Burlington..... | 12               | 36                       | 51.9                          | +0.1                       | 88       | 21    | 12      | 1     | 42                        | 5.11   | +1.41                      | 2.40                  | 2.0                        | 9                           | 23     | 2           | 5                             | nw.                  |         |
| Camp Dix.....                        | Burlington..... | 127              | 4                        | 51.0                          | .....                      | 86       | 21    | 10      | 1     | 41                        | 6.59   | .....                      | 1.38                  | 2.6                        | 11                          | 15     | 12          | 3                             | sw.                  |         |
| Hammononton.....                     | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.28   | +0.36                      | 1.37                  | 1.0                        | 9                           | 22     | 1           | 7                             | w.                   |         |
| Hightstown.....                      | Mercer.....     | 120              | 30                       | 49.6                          | -0.9                       | 86       | 21    | 10      | 1     | 42                        | 4.24   | +0.33                      | 1.50                  | 1.5                        | 12                          | 19     | 6           | 5                             | sw.                  |         |
| Imlaystown.....                      | Monmouth.....   | 115              | 34                       | 49.9                          | -0.6                       | 86       | 21    | 12      | 1     | 45                        | 4.10   | +0.66                      | 1.05                  | .....                      | 12                          | 19     | 4           | 7                             | sw.                  |         |
| Indian Mills†.....                   | Burlington..... | 76               | 33                       | 50.7                          | +0.4                       | 88       | 21    | 12      | 1     | 44                        | 3.55   | +0.12                      | 1.18                  | 2.0                        | 8                           | 13     | 7           | 10                            | sw.                  |         |
| Lakewood.....                        | Ocean.....      | 54               | 18                       | 50.4                          | +1.0                       | 86       | 21    | 11      | 1     | 41                        | 4.59   | +0.92                      | 1.91                  | 2.0                        | 9                           | 15     | 6           | 9                             | w.                   |         |
| Lumberton.....                       | Burlington..... | 20               | .....                    | 52.4 <sup>a</sup>             | .....                      | 86       | 21    | 13      | 1     | 42                        | 3.79   | .....                      | 1.41                  | 1.5                        | 10                          | 18     | 5           | 7                             | sw.                  |         |
| Moorestown.....                      | Burlington..... | 75               | 59                       | 52.2 <sup>b</sup>             | +1.8                       | 86       | 21    | 13      | 1     | 40                        | .....  | .....                      | 1.99                  | 3.0                        | 9                           | 16     | 8           | 6                             | w.                   |         |
| Northfield†.....                     | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.25   | +0.79                      | 0.99                  | T.                         | 11                          | .....  | .....       | .....                         | William L. Flick.    |         |
| Pleasantville†.....                  | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 4.10   | +0.75                      | 1.48                  | .....                      | 10                          | 20     | 2           | 8                             | .....                |         |
| Trenton.....                         | Mercer.....     | 190              | 50                       | 50.2                          | +0.4                       | 83       | 21    | 11      | 1     | 37                        | 3.34   | +0.05                      | 1.52                  | 1.7                        | 11                          | 11     | 11          | 8                             | sw.                  |         |
| Tuckerton.....                       | Ocean.....      | 23               | 29                       | 49.4                          | +0.1                       | 84       | 21    | 12      | 1     | 41                        | 4.62   | +0.88                      | 1.64                  | 1.0                        | 10                          | 17     | 8           | 5                             | nw.                  |         |
| Vineland.....                        | Cumberland..... | 109              | 53                       | 52.0 <sup>b</sup>             | +1.0                       | 86       | 20    | 13      | 1     | 38                        | 4.17   | +0.77                      | 1.31                  | T.                         | 9                           | 19     | 4           | 7                             | sw.                  |         |
| Philadelphia, Pa.....                | .....           | 117              | 52                       | 52.6                          | +0.5                       | 84       | 21    | 14      | 1     | 34                        | 5.09   | +2.18                      | 2.21                  | 1.8                        | 11                          | 13     | 7           | 10                            | nw.                  |         |
| Means and extremes...                |                 |                  |                          | 50.9                          | +0.2                       | 88       | 21    | 10      | 1     | 45                        | 4.32   | +0.61                      | 2.40                  | 1.3                        | 10                          | 18     | 5           | 7                             | sw.                  |         |
| The Sea Coast.                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                             |        |             |                               |                      |         |
| Asbury Park.....                     | Monmouth.....   | 22               | 33                       | 47.6                          | -0.9                       | 83       | 21    | 12      | 1     | 40                        | 4.62   | +0.93                      | 1.42                  | 1.0                        | 10                          | 15     | 7           | 8                             | sw.                  |         |
| Atlantic City.....                   | Atlantic.....   | 16               | 48                       | 48.4                          | +0.6                       | 79       | 20    | 15      | 1     | 34                        | 4.57   | +1.58                      | 1.55                  | T.                         | 9                           | 16     | 6           | 8                             | s.                   |         |
| Cape May City.....                   | Cape May.....   | 17               | 38                       | 49.2                          | +0.8                       | 79       | 20    | 16      | 1     | 33                        | 3.08   | +0.09                      | 0.82                  | T.                         | 10                          | 15     | 5           | 10                            | s.                   |         |
| Long Branch.....                     | Monmouth.....   | 25               | 15                       | 47.4                          | -0.7                       | 88       | 21    | 12      | 1     | 40                        | 5.02   | +0.47                      | 1.85                  | 0.6                        | 10                          | 14     | 5           | 11                            | s.                   |         |
| Sandy Hook.....                      | Monmouth.....   | 22               | 24                       | 48.2                          | +1.2                       | 80       | 21    | 14      | 1     | 29                        | 2.33   | -1.63                      | 1.23                  | T.                         | 9                           | 12     | 9           | 9                             | sw.                  |         |
| Means and extremes...                |                 |                  |                          | 48.2                          | +0.2                       | 88       | 21    | 12      | 1     | 40                        | 3.92   | +0.29                      | 1.85                  | 0.3                        | 10                          | 14     | 7           | 9                             | s.                   |         |
| For the State.....                   |                 |                  |                          | 50.0                          | +0.5                       | 91       | 21    | 3       | 1     | 48                        | 3.59   | -0.10                      | 3.21                  | 0.5                        | 9                           | 16     | 6           | 8                             | sw.                  |         |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Ridgefield is Morsermere; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for April, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |     |      |      |      |     |     |     |     |     |    |    |     |     |     |     |    |     |     |     |     |     |     |     |    |    |    |     |        |      |      | Total. |      |
|--------------------------------------------|-----------------|---------------|-----|------|------|------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|--------|------|------|--------|------|
|                                            |                 | 1             | 2   | 3    | 4    | 5    | 6   | 7   | 8   | 9   | 10  | 11 | 12 | 13  | 14  | 15  | 16  | 17 | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25 | 26 | 27 | 28  | 29     | 30   | 31   |        |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |      |      |      |     |     |     |     |     |    |    |     |     |     |     |    |     |     |     |     |     |     |     |    |    |    |     |        |      |      |        |      |
| Belvidere.....                             | Delaware.....   |               |     |      |      | 1.43 | .15 |     | *   |     |     |    |    |     |     |     |     |    | *   |     |     |     |     |     |     |    |    |    | *   | 1.35   |      | 2.95 |        |      |
| Charlotteburg.....                         | Passaic.....    |               |     |      |      | 1.06 |     |     | .12 |     |     |    |    |     |     | T.  |     |    | T.  |     |     |     |     |     |     |    |    |    | *   | 2.27   |      | 3.45 |        |      |
| Culvers Lake.....                          | Delaware.....   |               |     | .10  | .61  | .46  |     |     | .02 |     |     |    |    |     |     | .01 | .02 |    |     | .03 |     |     | T.  |     |     |    |    |    | .03 | 1.15   | .04  | 2.47 |        |      |
| Dover.....                                 | Passaic.....    |               |     | *    | 1.32 |      |     |     | .09 |     |     |    |    |     |     |     |     |    |     | .02 |     |     |     | .05 |     |    |    |    | *   | 1.98   | .05  | 3.51 |        |      |
| Layton.....                                | Delaware.....   |               |     |      | .06  | .86  | .06 |     | .02 |     |     |    |    |     |     |     |     |    | .09 |     |     |     |     | .02 |     |    |    |    | .19 | 1.00   | .04  | 2.34 |        |      |
| Newton.....                                | Delaware.....   |               |     |      | T.   | 1.30 | .11 | .13 | .02 |     |     |    |    |     |     | T.  |     |    | T.  |     | .02 |     |     | T.  |     |    |    |    | .40 | 1.40   | .03  | 3.41 |        |      |
| Phillipsburg.....                          | do.....         |               | .03 | .18  | .83  | .12  |     |     | T.  | .02 |     |    |    |     | T.  |     |     |    |     |     |     |     |     |     |     |    |    |    | .62 | .35    | .12  | 2.27 |        |      |
| Sussex.....                                | Hudson.....     |               |     | .02  | .55  | .49  |     |     | T.  | *   |     |    |    |     |     | T.  |     | T. |     | T.  |     |     |     | T.  |     |    |    |    | T.  | 1.45   | .03  | 2.54 |        |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |      |      |      |     |     |     |     |     |    |    |     |     |     |     |    |     |     |     |     |     |     |     |    |    |    |     |        |      |      |        |      |
| Bergen Point.....                          | Coast.....      |               |     |      | .19  | .91  | .23 |     | *   |     |     |    |    | .18 |     | .03 |     |    | T.  |     |     |     |     | T.  |     |    |    |    | .32 | .93    | .02  | 2.81 |        |      |
| Boonton   .....                            | Passaic.....    |               |     |      | .09  | .54  | .46 |     |     |     | .20 |    |    |     |     |     |     |    | T.  |     |     |     |     | .01 |     |    |    |    |     | .37    | 1.12 | .06  | 2.82   |      |
| Chatham   .....                            | do.....         |               |     | .21  | .66  | .32  |     |     |     | .13 |     |    |    |     |     | T.  | T.  |    |     |     |     |     | T.  |     |     |    |    |    | *   | 3.21   |      | 4.53 |        |      |
| Elizabeth.....                             | Coast.....      |               |     | .16  | .76  | .29  |     |     | .19 |     |     |    |    | .02 |     |     |     |    |     |     |     |     |     |     |     |    |    |    |     | * 1.40 | .02  | 2.84 |        |      |
| Flemington.....                            | Raritan.....    |               |     | .10  | 1.01 | .03  |     |     | .11 |     |     |    |    | .07 | .06 | .02 |     |    | T.  |     |     |     |     | .02 |     |    |    |    | T.  | 2.03   | .04  | 3.49 |        |      |
| Highwood.....                              | Hackensack..... |               |     | .05  | .62  | .66  |     |     | .36 |     |     |    |    |     |     |     |     |    |     |     |     |     |     |     |     |    |    |    | T.  | .34    | .90  | .01  | 2.94   |      |
| Jersey City.....                           | Coast.....      |               |     | *    | 1.01 |      |     |     | .13 |     |     |    |    | T.  | T.  | .01 |     |    | T.  |     |     |     |     | .01 |     |    |    |    |     | .19    | 1.01 | .03  | 2.39   |      |
| Lambertville.....                          | Delaware.....   |               |     | .09  | .86  | .06  |     |     | .30 |     |     |    |    | .31 | .15 | .06 | .01 |    | T.  |     |     |     |     | .04 |     |    |    |    | .34 | 1.94   | .05  | 4.21 |        |      |
| Little Falls   .....                       | Passaic.....    |               |     | .04  | .63  | .31  |     |     |     | .15 |     |    |    |     |     | .01 | T.  |    |     |     |     | .01 |     |     | .02 |    |    |    |     | .29    | .00  |      | 4.07   |      |
| Newark**.....                              | Coast.....      |               | .14 | .42  | .53  | .11  |     |     | .29 |     |     |    |    | .06 | T.  | .25 |     |    | T.  |     |     |     |     | .48 | .04 |    |    |    |     | 1.14   | .40  | .11  | 3.97   |      |
| New Brunswick.....                         | Raritan.....    |               |     | .04  | .44  | .24  |     |     | .11 | .12 |     |    |    | .07 | .06 | .01 | T.  |    | T.  |     |     | .01 |     |     |     |    |    |    | T.  | 1.45   | T.   |      | 2.55   |      |
| New Milford.....                           | Hackensack..... |               |     | .21  | .72  | .25  |     |     | .26 |     |     |    |    |     |     |     |     |    |     |     |     |     |     |     |     |    |    |    |     | .95    | .61  |      | 3.00   |      |
| Paterson.....                              | Passaic.....    |               |     | T.   | .79  | .12  |     |     | .18 |     |     |    |    |     |     | T.  | .03 |    | .02 |     |     |     |     |     |     |    |    |    |     | .03    | 1.65 |      | 2.82   |      |
| Plainfield.....                            | Raritan.....    |               |     | .12  | .81  | .12  |     |     | .20 |     |     |    |    | .01 | T.  | .01 |     |    | T.  |     |     |     |     | T.  | T.  |    |    |    |     | .37    | 1.12 | .06  | 2.82   |      |
| Ridgefield**.....                          | Hackensack..... |               |     | .05  | .57  | .40  |     |     | .12 |     |     |    |    | T.  |     |     | .01 |    | T.  |     |     |     |     | .01 |     |    |    |    |     | 1.00   | .19  | .01  | 2.36   |      |
| Somerville.....                            | Raritan.....    |               |     | *    | .97  |      |     |     | .11 |     |     |    |    | .04 | T.  |     |     |    | T.  |     |     |     |     |     |     |    |    |    | *   | 2.08   | .03  | 3.23 |        |      |
| South Orange.....                          | Rahway.....     |               | .03 | .18  | .70  |      |     |     | .11 |     |     |    |    | .01 |     | .06 |     |    |     |     |     |     |     | .02 |     |    |    |    |     | 1.31   | .41  | .02  | 2.84   |      |
| Woodcliff Lake.....                        | Hackensack..... |               | .03 | .17  | .55  | .05  |     |     | .05 |     |     |    |    | T.  |     | .03 |     |    | T.  |     |     |     |     |     |     |    |    |    |     | 1.15   | .66  |      | 2.66   |      |
| New York, N. Y**.....                      | Coast.....      |               | .02 | .23  | .67  |      |     |     | .12 |     |     |    |    |     |     |     |     |    |     |     |     |     | .01 |     |     |    |    |    |     | .80    | .18  | .01  | 2.07   |      |
| <i>The Southern Interior.</i>              |                 |               |     |      |      |      |     |     |     |     |     |    |    |     |     |     |     |    |     |     |     |     |     |     |     |    |    |    |     |        |      |      |        |      |
| Belle Plain.....                           | Tuckahoe.....   |               |     | .08  | 1.18 | .94  |     |     | .34 | .01 |     |    |    | .42 | .41 | .13 | T.  |    |     | T.  |     |     |     |     |     |    |    |    | .22 | .61    | .03  | 4.37 |        |      |
| Bridgeton.....                             | Coast.....      |               |     | *    | .70  | .61  |     |     | T.  |     |     |    |    | .53 | .42 | .10 |     |    |     |     |     |     | .10 |     |     |    |    |    | *   | 1.20   |      | 3.66 |        |      |
| Burlington.....                            | Delaware.....   |               |     | *    | 1.30 | .03  |     |     | .30 |     |     |    |    | .38 | .62 | .06 | T.  |    |     |     | .02 |     |     |     |     |    |    |    |     | * 2.40 |      | 5.11 |        |      |
| Camp Dix   .....                           | Delaware.....   |               |     | .90  | .72  | .91  |     |     | .38 |     |     |    |    | .65 | .35 | .80 |     |    |     | .20 |     |     |     | .30 |     |    |    |    |     | * 1.38 | T.   | 6.59 |        |      |
| Hammonton.....                             | Mullica.....    |               |     | T.   | 1.37 |      |     |     | .33 |     |     |    |    | .51 | .58 | .07 |     |    |     |     |     |     | .04 |     |     |    |    |    |     | .09    | 1.26 | .03  | 4.28   |      |
| Hightstown.....                            | Raritan.....    |               | *   | .18  | 1.50 | .02  |     |     | .30 |     |     |    |    | .35 | .30 | .05 |     |    | .05 |     |     |     |     | T.  |     |    |    |    |     | .25    | 1.22 | .02  | 4.24   |      |
| Imlaystown.....                            | Delaware.....   |               |     | *    | .78  | 1.05 |     |     | .37 | .03 |     |    |    | .29 | .49 | .04 | .03 |    | .02 |     |     |     |     | .03 |     |    |    |    | *   | .95    | .02  | 4.10 |        |      |
| Indian Mills.....                          | Mullica.....    |               |     | .06  | 1.06 |      |     |     | .38 |     |     |    |    | .42 | .40 | .05 |     |    | T.  |     |     |     |     |     |     |    |    |    |     | .20    | .98  | T.   | 3.55   |      |
| Lakewood.....                              | Metedeconk..... |               |     | .08  | 1.91 |      |     |     | .30 |     |     |    |    | .40 | .42 | .20 |     |    | T.  |     |     |     |     | .04 |     |    |    |    |     | .12    | 1.12 | T.   | 4.59   |      |
| Lumberton.....                             | Delaware.....   |               |     | *    | 1.34 | .02  |     |     | .26 |     |     |    |    | .38 | .34 | .03 | .01 |    |     | T.  | T.  |     |     |     |     |    |    |    |     | *      | 1.41 |      | 3.79   |      |
| Moorestown.....                            | Delaware.....   |               |     | .05  | .8   | .11  |     |     | .25 |     |     |    |    | .30 | .60 | .04 |     |    |     |     |     |     |     |     |     |    |    |    |     | * 1.99 |      | §    |        |      |
| Northfield.....                            | Coast.....      |               |     | .09  | .99  | .77  |     |     | .25 |     |     |    |    | .50 | .42 | .17 |     |    | T.  | T.  |     |     |     | .01 |     |    |    |    |     | .20    | .77  | .08  | 4.25   |      |
| Pleasantville.....                         | Coast.....      |               |     | .13  | 1.48 | .03  |     |     | .22 |     |     | T. |    | .68 | .24 | .16 | T.  |    | T.  | T.  |     |     |     | .03 |     |    |    |    |     | .46    | .67  |      | 4.10   |      |
| Trenton***.....                            | Delaware.....   |               | .03 | .25  | .61  |      |     |     | .16 |     |     |    |    | .46 | .20 | .04 | T.  |    | T.  |     | T.  |     |     | .01 |     |    |    |    |     | 1.48   | .04  | .06  | 3.34   |      |
| Tuckerton.....                             | Coast.....      |               |     | .10  | .94  | .70  |     |     | .25 |     |     |    |    | .40 | .69 | .22 |     |    |     |     |     |     |     | .06 |     |    |    |    |     | .20    | 1.66 |      | 4.62   |      |
| Vineland.....                              | Maurice.....    |               |     | *    | 1.31 | .15  |     |     | .20 | .05 |     |    |    | .44 | .60 | .09 |     |    |     |     |     |     |     | .03 |     |    |    |    |     | *      | 1.30 |      | 4.17   |      |
| Philadelphia, Pa.....                      | Delaware.....   |               | .01 | .42  | 1.23 |      |     |     | .20 |     |     |    |    | .43 | .54 | .03 |     |    | .01 |     |     |     |     |     |     |    |    |    |     | .29    | .19  | .02  | .01    | 5.09 |
| <i>The Sea Coast.</i>                      |                 |               |     |      |      |      |     |     |     |     |     |    |    |     |     |     |     |    |     |     |     |     |     |     |     |    |    |    |     |        |      |      |        |      |
| Asbury Park.....                           | Coast.....      |               |     | *    | 1.96 |      |     |     | .25 |     |     |    |    | .48 | .15 | .22 |     |    | T.  |     |     |     |     | .03 |     |    |    |    |     | *      | 1.42 | .11  | 4.62   |      |
| Atlantic City***.....                      | do.....         |               | T.  | 1.14 | .61  |      |     |     | .16 |     |     |    |    | .74 | .37 | .21 |     |    | T.  |     |     |     | .02 | T.  |     |    |    |    |     | 1.06   | .26  | T.   | 4.57   |      |
| Cape May City.....                         | do.....         |               |     | .05  | .72  | .10  |     |     | .19 |     |     |    |    | .55 | .20 | .10 |     |    | T.  |     |     |     |     |     |     |    |    |    |     | .40    | .76  | .01  | 3.08   |      |
| Long Branch**.....                         | do.....         |               | T.  | .22  | 1.78 |      |     |     | .25 |     |     |    |    | .39 | .11 | .34 |     |    | T.  |     |     |     |     | .01 |     |    |    |    |     | 1.65   | .20  | .07  | 5.02   |      |
| Sandy Hook***.....                         | do.....         |               | T.  | .25  | 1.04 |      |     |     | .19 |     |     |    |    | .10 | T.  | .05 |     |    | T.  |     |     |     |     | .01 |     |    |    |    |     | .28    | .38  | .03  | 2.33   |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. | Sun-<br>shin                               |                                            |                                     |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                     |
| Atlantic City.....    | 30.01         | 30.68    | 2     | 29.41   | 29    | 21               | 64              | nw.        | 14        | 70                                         | 77                                         | 67                                  |
| Cape May City.....    | 30.04         | 30.70    | 1     | 29.51   | 29    | 11               | 50              | s.         | 28        | 75                                         | 78                                         | ...                                 |
| Long Branch.....      | 29.99         | 30.65    | 2     | 29.40   | 29    | ...              | 48              | ne.        | 14        | 67                                         | 63                                         | 66                                  |
| Newark.....           | 29.97         | 30.67    | 2     | 29.36   | 29    | 23               | 64              | nw.        | 5         | 63*                                        | 60†                                        | 54                                  |
| New York, N. Y.....   | 30.01         | 30.71    | 1     | 29.33   | 28    | 12               | 36              | s.         | 5         | 66                                         | 57                                         | 65                                  |
| Philadelphia, Pa..... | 29.97         | 30.66    | 2     | 29.37   | 29    | ...              | ...             | ...        | ...       | 63                                         | 56                                         | 69                                  |
| Ridgefield.....       | 29.96         | 30.68    | 1     | 29.34   | 29    | 17               | 65              | s.         | 28        | 73                                         | 71                                         | 67                                  |
| Sandy Hook.....       | 29.98         | 30.67    | 1     | 29.33   | 29    | 14               | 46              | w.         | 22        | 64                                         | 57                                         | 72                                  |
| Trenton.....          |               |          |       |         |       |                  |                 |            |           |                                            |                                            |                                     |

\* 7 a. m. † 9 p. m.



| Stations.                                   | 1            | 2  | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31    | Mean.             |                   |
|---------------------------------------------|--------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------------------|-------------------|
| <i>The Highlands and Kittatinny Valley.</i> |              |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |                   |                   |
| Belvidere.....                              | Maximum...   | 38 | 52   | 66   | 72   | 64   | 66   | 71   | 61   | 52   | 54   | 65   | 60   | 56   | 54   | 43   | 59   | 57   | 50   | 62   | 84   | 86   | 71   | 62   | 60   | 67   | 73   | 78   | 74   | 67   | ..... | 62.7 <sup>a</sup> |                   |
|                                             | Minimum..... | 9  | 19   | 29   | 50   | 47   | 40   | 32   | 44   | .... | 30   | 30   | 30   | 34   | 30   | 34   | 33   | 33   | 27   | 29   | 55   | 47   | 53   | 51   | 34   | 42   | 60   | 80   | 70   | 47   | 41    | .....             | 35.8 <sup>b</sup> |
| Charlotteburg.....                          | Maximum..... | 35 | 50   | 63   | 71   | 68   | 59   | 68   | 68   | 56   | 50   | 63   | 61   | 58   | 53   | 45   | 58   | 58   | 55   | 55   | 83   | 86   | 84   | 68   | 57   | 62   | 69   | 73   | 70   | 70   | 59    | .....             | 62.5              |
|                                             | Minimum..... | 6  | 12   | 32   | 49   | 43   | 41   | 26   | 42   | 26   | 20   | 35   | 28   | 33   | 28   | 30   | 31   | 29   | 23   | 28   | 44   | 54   | 49   | 29   | 39   | 29   | 30   | 44   | 47   | 42   | ..... | 33.9              |                   |
| Dover.....                                  | Maximum..... | 36 | 50   | 65   | 71   | 59   | 62   | 69   | 59   | 50   | 51   | 63   | 61   | 56   | 46   | 39   | 59   | 57   | 42   | 58   | 83   | 87   | 73   | 61   | 61   | 68   | 72   | 72   | 71   | 68   | 57    | .....             | 60.9              |
|                                             | Minimum..... | 8  | 19   | 31   | 52   | 48   | 43   | 32   | 36   | 28   | 26   | 35   | 30   | 35   | 31   | 32   | 33   | 34   | 29   | 30   | 48   | 54   | 54   | 42   | 35   | 42   | 32   | 37   | 46   | 51   | 43    | .....             | 36.5              |
| Layton.....                                 | Maximum..... | 35 | 51   | 66   | 72   | 65   | 62   | 69   | 63   | 52   | 52   | 63   | 59   | 57   | 58   | 42   | 60   | 56   | 50   | 62   | 84   | 88   | 72   | 57   | 60   | 66   | 72   | 73   | 69   | 67   | 60    | .....             | 62.1              |
|                                             | Minimum..... | 7  | 14   | 33   | 51   | 44   | 42   | 26   | 48   | 27   | 22   | 28   | 27   | 32   | 30   | 29   | 30   | 29   | 24   | 26   | 50   | 42   | 52   | 45   | 35   | 41   | 24   | 33   | 48   | 50   | 38    | .....             | 34.2              |
| Newton.....                                 | Maximum..... | 34 | 51   | 64   | 70   | 65   | 60   | 68   | 65   | 51   | 45   | .... | 62   | 55   | 50   | 41   | 58   | 55   | 51   | 58   | 81   | .... | 70   | 64   | 64   | 72   | 65   | 66   | 66   | 60   | 63    | .....             | 59.9 <sup>b</sup> |
|                                             | Minimum..... | 7  | 20   | 33   | 51   | 42   | 43   | .... | 38   | 27   | 33   | 28   | 38   | 35   | 28   | 32   | 32   | 36   | 30   | 28   | 49   | .... | 60   | 49   | 35   | 36   | .... | 35   | 42   | 50   | 43    | .....             | 36.3 <sup>a</sup> |
| Phillipsburg.....                           | Maximum..... | 40 | .... | 73   | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....  | .....             | 37.3              |
|                                             | Minimum..... | 12 | 20   | 31   | 51   | 52   | 40   | 33   | 35   | 32   | 31   | 32   | 34   | 35   | 34   | 35   | 35   | 31   | 34   | 47   | 46   | 54   | 44   | 38   | 34   | 39   | 37   | 50   | 43   | 44   | ..... | 64.5 <sup>c</sup> |                   |
| Sussex.....                                 | Maximum..... | 40 | 54   | 65   | 73   | 68   | 61   | 70   | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....  | .....             | 34.3 <sup>d</sup> |
|                                             | Minimum..... | 9  | 18   | 30   | .... | 41   | 42   | .... | .... | .... | 25   | 33   | 28   | 32   | 29   | 30   | 33   | 30   | 24   | 29   | 46   | 41   | 53   | 53   | 29   | 40   | 27   | 32   | 48   | 51   | 39    | .....             | 34.3 <sup>d</sup> |
| <i>The Red Sandstone Plain.</i>             |              |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |                   |                   |
| Bergen Point.....                           | Maximum..... | 37 | 52   | .... | 72   | 59   | 60   | 75   | 65   | 54   | 49   | 62   | 54   | 54   | 51   | 41   | 59   | 53   | 57   | 82   | 88   | 78   | 65   | 60   | 65   | 72   | 69   | 65   | 67   | 61   | ..... | 61.6 <sup>a</sup> |                   |
|                                             | Minimum..... | 13 | 24   | 34   | 56   | 46   | 47   | 29   | 51   | 82   | 33   | .... | 40   | .... | 38   | 37   | .... | .... | .... | .... | .... | .... | 60   | 50   | 39   | 48   | 40   | 45   |      |      |       |                   |                   |

§§ Instruments are read in the morning; the maximum temperature then read is charged



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVIII.

MAY, 1923.

No. 5.

### GENERAL SUMMARY.

The last "Spring" month has omitted many of the desirable and frequently occurring weather conditions which are normal to New Jersey. May droughts and mean temperatures under 60° are infrequent, yet both these conditions obtained in 1923. It added to a deficiency of both warmth and moisture, accumulated from the first of the year and even more remotely, so that it was frequently remarked that a "year without a summer" was about to occur. May of 1917 was 5° colder than May of 1923, but there was more nearly a normal amount of rain. Mays with less rain have occurred in 1911, 1903, and 1887, but they were practically all of normal warmth. The number of clear days, 20, was a notable exception to normal, and densely overcast skies occurred but seldom.

The rain occurred principally on the 8-9th, 12-13th, 16-17th, in northern districts, and on the 21st.

Durning the first three weeks there were a few scattered days slightly warmer than normal but most of this period it was cool and dry. On the 11th temperatures averaged 10° to 15° below normal, and freezing or killing frosts occurred over extended areas. From the 25th to 30th, summer conditions became frequent.

The weather was remarkably favorable for out-of-door occupations, and farm work was well in hand or in advance of normal, but crop conditions became discouraging on account of the cold ground and lack of moisture.

Storm warnings were displayed along the coast on the 8th, 11th, and 15th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 38 stations, was 59.1°, which was 1.3° below the normal. The highest temperature was 90° at Paterson on the 26th, and Bridgeton, Burlington and Tuckerton on the 29th, and the lowest, 25°, at Layton on the 11th. The highest monthly mean temperature was 62.4° at Bridgeton, and the lowest, 54.3° at Asbury Park. The greatest daily range of temperature was 48° at Belle Plain on the 25th.

The temperature departure from the normal for the year 1923 to date, by sections, is: The Highlands, -1.3°; Red Sandstone Plain, -1.3°; Southern Interior, -0.4°; Sea Coast, -0.8°.

### PRECIPITATION.

The average total precipitation of the State, as deduced from observations of 45 stations, was 1.66 inches, which was 2.08 inches below the normal. The greatest monthly amount was 3.62 inches at Newark, and the least 0.67 inch at Pleasantville. The greatest amount accumulated in any 24 consecutive hours was 1.30 inches at Tuckerton on the 9th. The average number of days on which .01 inch or more of rain fell was 6, which was 5 less than the normal.

The accumulated precipitation departure from the normal for the year 1923 to date, by sections, is: The Highlands, -2.59 inches; Red Sandstone Plain, -2.53 inches; Southern Interior, -0.01 inch; Sea Coast, -0.54 inch.

### WIND.

The prevailing wind direction was from the southwest with an hourly velocity of 12 miles, which was 1 mile above the nor-

mal. The highest velocity sustained for 5 consecutive minutes, was 50 miles per hour from the southwest at Atlantic City on the 16th. High winds were also noted on the 12th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 20, which was 8 more than the normal; partly cloudy, 6, or 4 less than the normal; cloudy, 5, or 4 less than the normal. The per cent of possible sunshine was 75, which was 15 per cent above the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.97 inches, which was 0.02 below the normal. The highest reading was 30.32 inches at Cape May City and Sandy Hook on the 24th, and the lowest, 29.40 inches at Sandy Hook and Trenton on the 12th.

The mean stage of the Delaware River at Phillipsburg was 4.2 feet, and the highest, 6.0 feet on the 1st and 13th. At Trenton the mean daily stage was 2.7 feet, which was 0.1 foot above the normal; the highest stage was 4.3 feet on the 1st.

Killing frost occurred quite generally over the northern and central portions of the State on the 11th, except along the immediate coast. Charlotteburg also reported killing frost on the 24th. Heavy frost was noted at Trenton, Tuckerton, Lakewood, and New Libson on the 11th, and at New Libson on the 24th; light frost at Elizabeth and Highwood on the 11th, and at Little Falls on the 24th. Thunderstorms occurred in some portion of the State on the 5th, 8th, 9th, 10th, 12th, 16th, 17th, and 21st. Solar halos were observed on the 7th, 8th, 11th, 18th, 20th, 21st, 23d, and 31st. Dense fog occurred on the 6th, 7th, 15th, 16th, 20th, and 28th. Hail fell at Bergen Point on the 9th.

### COMPARATIVE DATA FOR MAY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 57.3         | 90       | 29      | 2.74           | 5.20      | 1.18   | .....        | .....          | .....   | .....                  |
| 1886..... | 58.8         | 87       | 35      | 6.07           | 8.46      | 4.15   | .....        | .....          | .....   | 6                      |
| 1887..... | 63.3         | 94       | 35      | 1.37           | 3.82      | 0.08   | .....        | .....          | 9       | 6                      |
| 1888..... | 58.6         | 90       | 26      | 4.92           | 6.48      | 3.00   | .....        | .....          | 18      | 16                     |
| 1889..... | 62.3         | 94       | 32      | 4.09           | 6.60      | 2.43   | .....        | .....          | 11      | 12                     |
| 1890..... | 60.7         | 87       | 33      | 4.24           | 7.17      | 2.60   | .....        | .....          | 11      | 12                     |
| 1891..... | 59.5         | 93       | 28      | 2.97           | 5.39      | 1.78   | 9            | 11             | 11      | 9                      |
| 1892..... | 60.1         | 90       | 30      | 5.04           | 6.52      | 3.26   | 8            | 13             | 10      | 13                     |
| 1893..... | 59.4         | 95       | 29      | 4.07           | 6.38      | 2.55   | 13           | 8              | 10      | 10                     |
| 1894..... | 61.4         | 93       | 30      | 7.72           | 15.61     | 3.57   | 11           | 9              | 11      | 13                     |
| 1895..... | 60.9         | 102      | 28      | 2.85           | 3.95      | 1.66   | 12           | 12             | 7       | 8                      |
| 1896..... | 55.3         | 98       | 29      | 3.21           | 4.54      | 1.62   | 10           | 12             | 9       | 10                     |
| 1897..... | 60.6         | 87       | 29      | 5.68           | 9.11      | 1.71   | 11           | 12             | 8       | 12                     |
| 1898..... | 58.5         | 93       | 29      | 7.00           | 9.26      | 3.92   | 8            | 8              | 15      | 18                     |
| 1899..... | 61.1         | 94       | 29      | 1.92           | 3.15      | 1.15   | 12           | 12             | 7       | 9                      |
| 1900..... | 60.9         | 98       | 26      | 4.71           | 7.33      | 2.53   | 13           | 7              | 11      | 10                     |
| 1901..... | 58.6         | 90       | 29      | 5.60           | 8.13      | 3.10   | 9            | 9              | 13      | 16                     |
| 1902..... | 60.3         | 95       | 29      | 2.04           | 4.63      | 1.11   | 15           | 11             | 5       | 7                      |
| 1903..... | 62.7         | 98       | 27      | 0.59           | 1.32      | 0.08   | 16           | 10             | 5       | 4                      |
| 1904..... | 62.8         | 97       | 31      | 2.60           | 6.69      | 1.01   | 17           | 9              | 5       | 8                      |
| 1905..... | 61.4         | 89       | 22      | 1.71           | 3.94      | 0.42   | 12           | 11             | 8       | 8                      |
| 1906..... | 61.0         | 94       | 24      | 4.21           | 6.28      | 2.37   | 16           | 8              | 7       | 10                     |
| 1907..... | 55.4         | 91       | 22      | 5.05           | 8.09      | 2.51   | 12           | 9              | 10      | 12                     |
| 1908..... | 61.6         | 95       | 29      | 7.10           | 9.99      | 4.39   | 9            | 10             | 12      | 13                     |
| 1909..... | 60.0         | 91       | 27      | 2.30           | 4.84      | 0.79   | 10           | 11             | 10      | 9                      |
| 1910..... | 60.0         | 94       | 27      | 2.54           | 4.25      | 1.48   | 10           | 10             | 11      | 12                     |
| 1911..... | 64.5         | 99       | 22      | 1.37           | 3.84      | 0.31   | 14           | 11             | 6       | 7                      |
| 1912..... | 62.0         | 92       | 31      | 4.09           | 6.47      | 2.79   | 11           | 11             | 9       | 11                     |
| 1913..... | 60.3         | 94       | 25      | 3.45           | 4.86      | 2.53   | 15           | 7              | 9       | 9                      |
| 1914..... | 63.1         | 98       | 30      | 2.93           | 5.09      | 0.95   | 14           | 9              | 7       | 10                     |
| 1915..... | 58.1         | 88       | 30      | 3.82           | 6.15      | 2.00   | 13           | 7              | 11      | 13                     |
| 1916..... | 61.1         | 90       | 32      | 3.48           | 5.27      | 2.14   | 12           | 11             | 8       | 12                     |
| 1917..... | 54.0         | 90       | 22      | 3.83           | 6.83      | 2.08   | 10           | 10             | 11      | 11                     |
| 1918..... | 64.6         | 93       | 31      | 4.94           | 7.59      | 2.74   | 14           | 10             | 7       | 12                     |
| 1919..... | 60.9         | 95       | 31      | 4.98           | 7.68      | 3.06   | 14           | 6              | 11      | 12                     |
| 1920..... | 57.4         | 89       | 25      | 3.00           | 5.23      | 1.61   | 15           | 8              | 8       | 10                     |
| 1921..... | 60.2         | 96       | 30      | 4.17           | 6.44      | 2.60   | 14           | 7              | 10      | 10                     |
| 1922..... | 63.0         | 90       | 23      | 3.84           | 7.55      | 1.16   | 18           | 6              | 7       | 8                      |
| 1923..... | 59.1         | 90       | 25      | 1.66           | 3.62      | 0.67   | 20           | 6              | 5       | 6                      |



## Climatological Data for May, 1923.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                                                                                                                          |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                                                                                                                  |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289              | 31                       | 58.5                          | -2.2                       | 84       | 29    | 30      | 11    | 45                        | 3.13   | -0.70                      | 0.88                  | 0                          | 7                              | 25     | 2           | 4                             | .....      | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719              | 30                       | 55.5                          | -2.0                       | 84       | 25†   | 26      | 11    | 47                        | 1.87   | -2.33                      | 0.69                  | 0                          | 7                              | 22     | 3           | 6                             | w.         |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848              | 21                       | .....                         | .....                      | .....    | ..... | 27      | 11    | .....                     | 2.91   | -0.72                      | 1.25                  | T.                         | 8                              | 23     | 4           | 4                             | n.         |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600              | 38                       | 58.0                          | -0.6                       | 85       | 26    | 29      | 11    | 39                        | 2.45   | -1.49                      | 0.68                  | T.                         | 8                              | 16     | 11          | 4                             | .....      |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480              | 21                       | 56.0                          | -2.0                       | 84       | 25†   | 25      | 11    | 47                        | 3.24   | -0.01                      | 1.09                  | T.                         | 7                              | 20     | 2           | 9                             | se.        | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                                 | Sussex.....     | 769              | 39                       | 57.4                          | -2.1                       | 77       | 25†   | 31      | 11    | 36                        | 3.01   | -0.92                      | 1.02                  | 0                          | 7                              | 20     | 6           | 5                             | sw.        |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363              | 39                       | 60.4 <sup>b</sup>             | -0.9                       | 88       | 29    | 32      | 11    | 42                        | 2.59   | -1.27                      | 1.10                  | 0                          | 5                              | 23     | 6           | 2                             | .....      |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442              | 28                       | 57.1 <sup>d</sup>             | -2.8                       | 86       | 25    | 26      | 11    | 46                        | 2.82   | -0.90                      | 1.17                  | T.                         | 7                              | .....  | .....       | .....                         | sw.        |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 57.6                          | -1.8                       | 88       | 29    | 25      | 11    | 47                        | 2.75   | -1.04                      | 1.25                  | T.                         | 7                              | 21     | 5           | 5                             | sw.        |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Bergen Point†.....                          | Hudson.....     | 37               | 25                       | 60.2 <sup>b</sup>             | -0.1                       | 89       | 26    | 36      | 11    | 31                        | 2.02   | -1.94                      | 0.65                  | 0                          | 6                              | .....  | .....       | .....                         | .....      | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400              | 32                       | 56.7                          | -2.5                       | 83       | 25†   | 26      | 11    | 42                        | 1.58   | -2.48                      | 0.56                  | 0                          | 7                              | 23     | 2           | 6                             | ne.        |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185              | 18                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.35   | -2.15                      | 0.51                  | 0                          | 6                              | 24     | 6           | 1                             | .....      |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45               | 43                       | 60.6                          | -1.4                       | 88       | 26    | 34      | 11    | 38                        | 1.74   | -2.08                      | 0.73                  | 0                          | 7                              | 19     | 8           | 4                             | se.        |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140              | 36                       | 60.4                          | -0.9                       | 87       | 26    | 31      | 11    | 42                        | 1.47   | -2.55                      | 0.58                  | 0                          | 7                              | 23     | 5           | 3                             | sw.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood†.....                              | Bergen.....     | 90               | 34                       | 57.6                          | -1.7                       | 87       | 26    | 30      | 11    | 42                        | 1.64   | -2.19                      | 0.62                  | 0                          | 7                              | 20     | 6           | 5                             | sw.        |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10               | 24                       | 61.5                          | -0.1                       | 86       | 26†   | 38      | 10    | 32                        | 1.85   | -1.73                      | 0.70                  | T.                         | 6                              | 18     | 9           | 4                             | s.         |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370              | 35                       | 59.5                          | -2.1                       | 84       | 29    | 32      | 11    | 35                        | 1.61   | -2.41                      | 0.52                  | 0                          | 8                              | 21     | 3           | 7                             | w.         |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180              | 19                       | 59.8                          | +0.1                       | 87       | 26†   | 30      | 11    | 40                        | 1.31   | -2.48                      | 0.52                  | T.                         | 9                              | 17     | 8           | 6                             | nw.        | Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                        |
| Newark.....                                 | Essex.....      | 159              | 80                       | 61.4                          | +0.3                       | 88       | 26    | 40      | 10†   | 31                        | 3.62   | -0.35                      | 0.85                  | 0                          | 6                              | 18     | 8           | 5                             | sw.        |                                                                                                                          |
| New Brunswick.....                          | Middlesex.....  | 110              | 69                       | 60.0                          | -0.4                       | 87       | 29    | 31      | 11    | 40                        | 1.36   | -2.53                      | 0.57                  | 0                          | 6                              | 21     | 8           | 2                             | w.         |                                                                                                                          |
| New Milford†.....                           | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.57   | .....                      | 0.72                  | 0                          | 6                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80               | 51                       | 61.1                          | -0.4                       | 90       | 26    | 35      | 11    | 39                        | 1.39   | -3.05                      | 0.48                  | T.                         | 7                              | 7      | 4           | 20                            | se.        | Marion T. Probert.<br>E. D. Pearson.<br>H. B. TenEyck.<br>Dr. Wm. J. Chandler.                                           |
| Plainfield.....                             | Union.....      | 120              | 34                       | 60.7 <sup>a</sup>             | +0.5                       | 87       | 26†   | 28      | 11    | 41                        | 1.54   | -2.38                      | 0.57                  | T.                         | 7                              | 18     | 10          | 3                             | n.         |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70               | 39                       | 59.8                          | -1.0                       | 88       | 29    | 27      | 11    | 44                        | 1.28   | -2.57                      | 0.57                  | 0                          | 5                              | 22     | 0           | 9                             | nw.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200              | 52                       | 59.2 <sup>a</sup>             | -0.8                       | 84       | 26    | 32      | 10†   | 33                        | 1.85   | -1.71                      | 1.18                  | 0                          | 3                              | 16     | 11          | 4                             | w.         |                                                                                                                          |
| Woodcliff Lake†.....                        | Bergen.....     | .....            | 2                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.71   | .....                      | 0.69                  | 0                          | 7                              | .....  | .....       | .....                         | .....      | Hackensack Water Co.<br>U. S. Weather Bureau.                                                                            |
| New York, N. Y.....                         |                 | 365              | 52                       | 59.3                          | -1.3                       | 81       | 26    | 38      | 10    | 28                        | 1.58   | -1.60                      | 0.61                  | 0                          | 6                              | 17     | 8           | 6                             | s.         |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 59.9                          | -0.8                       | 90       | 26    | 26      | 11    | 44                        | 1.70   | -2.17                      | 1.18                  | T.                         | 6                              | 19     | 6           | 6                             | w.         |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30               | 28                       | 57.8                          | -3.3                       | 88       | 29    | 30      | 11    | 48                        | 0.91   | -2.91                      | 0.39                  | 0                          | 4                              | 23     | 5           | 3                             | sw.        | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                              | Cumberland..... | 30               | 41                       | 62.4                          | -1.6                       | 90       | 29    | 37      | 11    | 37                        | 0.86   | -2.98                      | 0.36                  | 0                          | 4                              | 25     | 5           | 1                             | .....      |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12               | 36                       | 62.0                          | +0.1                       | 90       | 29    | 34      | 11    | 38                        | 1.54   | -2.67                      | 0.40                  | 0                          | 6                              | 27     | 2           | 2                             | nw.        |                                                                                                                          |
| Camp Dix.....                               | Burlington..... | 127              | 4                        | 59.4                          | .....                      | 87       | 29    | 30      | 11    | 43                        | 1.12   | .....                      | 0.39                  | 0                          | 7                              | 22     | 8           | 1                             | sw.        |                                                                                                                          |
| Hammononton.....                            | Atlantic.....   | 103              | 21                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 0.87   | -3.41                      | 0.37                  | 0                          | 5                              | 21     | 8           | 2                             | sw.        | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                             | Mercer.....     | 120              | 30                       | 58.6                          | -2.7                       | 85       | 29    | 29      | 11    | 41                        | 1.38   | -2.57                      | 0.54                  | 0                          | 6                              | 29     | 0           | 2                             | sw.        |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115              | 34                       | 59.7                          | -2.2                       | 87       | 26    | 30      | 11    | 44                        | 1.11   | -2.51                      | 0.50                  | 0                          | 4                              | 21     | 3           | 4                             | se.        |                                                                                                                          |
| Indian Mills†.....                          | Burlington..... | 76               | 33                       | 60.2                          | -1.9                       | 89       | 29    | 32      | 11    | 45                        | 1.03   | -2.21                      | 0.40                  | 0                          | 5                              | 14     | 12          | 5                             | se.        |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54               | 18                       | 59.0                          | -1.2                       | 87       | 29    | 30      | 11    | 40                        | 1.64   | -1.76                      | 0.90                  | 0                          | 5                              | 22     | 4           | 5                             | w.         | R. W. Holman.<br>Ralph B. Sterner.<br>Stokes Seed Farms Co.<br>William L. Flick.                                         |
| Lumberton.....                              | Burlington..... | 20               | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 0.95   | -3.07                      | 0.36                  | 0                          | 5                              | .....  | .....       | .....                         | w.         |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75               | 59                       | 62.2†                         | +0.9                       | 89       | 29    | 35      | 11    | .....                     | 0.94   | -2.53                      | 0.54                  | 0                          | 4                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Northfield†.....                            | Atlantic.....   | 25               | 15                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 0.67   | -2.59                      | 0.53                  | 0                          | 2                              | 24     | 3           | 4                             | .....      |                                                                                                                          |
| Pleasantville†.....                         | Atlantic.....   | 26               | 24                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 0.89   | -2.63                      | 0.47                  | 0                          | 7                              | 15     | 7           | 9                             | sw.        | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Trenton.....                                | Mercer.....     | 190              | 50                       | 60.6                          | -0.5                       | 86       | 29    | 37      | 10    | 33                        | 0.89   | -2.63                      | 0.47                  | 0                          | 7                              | 15     | 7           | 9                             | sw.        |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23               | 29                       | 58.2                          | -1.7                       | 90       | 29    | 32      | 11    | 41                        | 2.32   | -1.42                      | 1.30                  | 0                          | 5                              | 21     | 8           | 2                             | se.        |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109              | 53                       | 62.3                          | 0.0                        | 88       | 27†   | 37      | 10    | 39                        | 0.95   | -2.68                      | 0.34                  | 0                          | 5                              | 21     | 6           | 4                             | nw.        |                                                                                                                          |
| Philadelphia, Pa.....                       | .....           | 117              | 52                       | 62.6                          | -0.3                       | 87       | 29    | 38      | 10    | 30                        | 1.23   | -1.97                      | 0.50                  | 0                          | 7                              | 13     | 10          | 8                             | s.         |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 60.2                          | -1.3                       | 90       | 29    | 29      | 11    | 48                        | 1.15   | -2.57                      | 1.30                  | 0                          | 5                              | 22     | 6           | 3                             | se.        |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22               | 33                       | 54.3 <sup>b</sup>             | -4.5                       | 76       | 12    | 35      | 6     | 29                        | 1.46   | -2.12                      | 0.75                  | 0                          | 7                              | 19     | 3           | 9                             | ne.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16               | 48                       | 56.9                          | -1.2                       | 74       | 29    | 40      | 10    | 22                        | 1.08   | -1.92                      | 0.53                  | 0                          | 5                              | 16     | 8           | 7                             | s.         |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17               | 38                       | 58.4                          | -0.2                       | 80       | 27    | 42      | 10    | 24                        | 1.13   | -1.86                      | 0.57                  | 0                          | 3                              | 16     | 7           | 8                             | s.         |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25               | 15                       | 55.2                          | -3.0                       | 84       | 26    | 35      | 11    | 31                        | 1.48   | -2.28                      | 0.72                  | 0                          | 5                              | 17     | 11          | 3                             | s.         |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22               | 24                       | 58.0                          | -0.5                       | 82       | 26    | 40      | 10    | 25                        | 1.32   | -2.38                      | 0.70                  | 0                          | 6                              | 17     | 8           | 6                             | s.         |                                                                                                                          |
| Means and extremes.....                     |                 |                  |                          | 56.6                          | -1.9                       | 84       | 26    | 35      | 6†    | 31                        | 1.29   | -2.11                      | 0.75                  | 0                          | 5                              | 17     | 7           | 7                             | s.         |                                                                                                                          |
| For the State.....                          |                 |                  |                          | 59.1                          | -1.3                       | 90       | 26†   | 25      | 11    | 48                        | 1.66   | -2.08                      | 1.30                  | T.                         | 6                              | 20     | 6           | 5                             | sw.        |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Ridgefield is Morse-mere; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



## Daily Precipitation for May, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |   |   |   |     |    |     |     |         |      |     |     |     |     |     |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    | Total. |
|--------------------------------------------|-----------------|---------------|---|---|---|-----|----|-----|-----|---------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|----|----|----|----|----|----|----|----|----|--------|
|                                            |                 | 1             | 2 | 3 | 4 | 5   | 6  | 7   | 8   | 9       | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20   | 21   | 22  | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |   |   |     |    |     |     |         |      |     |     |     |     |     |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |        |
| Belvidere.....                             | Delaware.....   |               |   |   |   | .15 |    |     |     | .80     |      |     | .45 | .34 |     |     | .12 | .39 |     |     |      | .88  |     |    |    |    |    |    |    |    |    |    | 3.13   |
| Charlotteburg.....                         | Passaic.....    |               |   |   |   |     |    |     |     | .49     | .04  |     | .18 |     |     | *   | .12 | .35 |     |     |      | .69  |     |    |    |    |    |    |    |    |    |    | 1.87   |
| Culvers Lake.....                          | Delaware.....   |               |   |   |   | T.  | T. |     |     | .03     | 1.25 | .01 | .12 | .25 |     | T.  | .05 | .10 |     |     |      | 1.10 |     |    |    |    |    |    |    |    |    |    | 2.91   |
| Dover.....                                 | Passaic.....    |               |   |   |   |     |    |     |     | .30     | .03  | T.  | .40 | .18 |     |     | .86 |     |     |     |      | .68  |     |    |    |    |    |    |    |    |    |    | 2.45   |
| Layton.....                                | Delaware.....   |               |   |   |   |     |    |     |     | T. 1.01 | T.   |     | .73 | .04 |     | *   | .19 | .18 |     |     |      | 1.09 |     |    |    |    |    |    |    |    |    |    | 3.24   |
| Newton.....                                | Delaware.....   |               |   |   |   |     |    |     |     | T. .88  | .03  |     | .27 | .43 | T.  | .10 | .18 |     |     |     | 1.02 |      |     |    |    |    |    |    |    |    |    |    | 3.01   |
| Phillipsburg.....                          | do.....         |               |   |   |   | .04 |    |     |     | 1.10    | T.   | T.  | .54 | T.  |     | T.  | .19 |     |     |     | .72  |      |     |    |    |    |    |    |    |    |    |    | 2.59   |
| Sussex.....                                | Hudson.....     |               |   |   |   |     |    |     |     | .44     | .01  |     | .29 | .47 |     | T.  | .13 | .31 |     |     |      | 1.17 |     |    |    |    |    |    |    |    |    |    | 2.82   |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |   |   |     |    |     |     |         |      |     |     |     |     |     |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |        |
| Bergen Point.....                          | Coast.....      | .02           |   |   |   |     |    |     |     | .60     |      |     | .25 | .50 |     | T.  | T.  |     |     |     |      | .65  |     |    |    |    |    |    |    |    |    |    | 2.02   |
| Boonton   .....                            | Passaic.....    | T.            |   |   |   |     |    |     |     | .24     | .01  |     | T.  | .40 | .01 |     | .01 | .35 |     |     |      | .56  | T.  |    |    |    |    |    |    |    |    |    | 1.58   |
| Chatham   .....                            | do.....         |               |   |   |   |     |    |     |     | .33     | .19  | T.  |     | .14 | T.  | T.  | .11 | .11 |     |     |      | .51  | .07 |    |    |    |    |    |    |    |    |    | 1.35   |
| Elizabeth.....                             | Coast.....      | .02           |   |   |   |     |    |     |     | .30     | .04  |     | *   | .50 |     |     | T.  | .15 |     |     |      | .73  |     |    |    |    |    |    |    |    |    |    | 1.74   |
| Flemington.....                            | Raritan.....    |               |   |   |   |     |    |     |     | T. .18  | .02  |     | .20 | .20 |     |     | .02 | .27 |     | T.  |      | .58  |     |    |    |    |    |    |    |    |    |    | 1.47   |
| Highwood.....                              | Hackensack..... |               |   |   |   |     |    |     |     | .45     | .03  |     | .24 | .26 |     | T.  | .01 | .03 |     |     |      | .62  |     |    |    |    |    |    |    |    |    |    | 1.64   |
| Jersey City.....                           | Coast.....      |               |   |   |   | T.  |    |     |     | .64     | .03  |     | .13 | .27 |     | T.  | T.  | .08 |     |     |      | .70  |     |    |    |    |    |    |    |    |    |    | 1.85   |
| Lambertville.....                          | Delaware.....   | .02           |   |   |   |     |    |     |     | .20     | .05  |     | .18 | .42 |     | T.  | .11 | .11 |     | T.  |      | .52  |     |    |    |    |    |    |    |    |    |    | 1.61   |
| Little Falls   .....                       | Passaic.....    | .01           |   |   |   |     |    |     |     | .28     | .03  |     | .01 | .32 | T.  |     | .01 | .13 |     |     |      | .50  | .02 |    |    |    |    |    |    |    |    |    | 1.31   |
| Newark**.....                              | Coast.....      |               |   |   |   | T.  |    |     |     | .52     | .85  |     | .77 | .51 |     | T.  | .33 |     |     |     | .64  |      |     |    |    |    |    |    |    |    |    |    | 3.62   |
| New Brunswick.....                         | Raritan.....    | T.            |   |   |   |     |    |     |     | .06     | .04  |     | T.  | .57 |     |     | .01 | .12 |     |     |      | .56  |     |    |    |    |    |    |    |    |    |    | 1.36   |
| New Milford.....                           | Hackensack..... |               |   |   |   |     |    |     |     | .07     | .38  |     | .32 | .05 |     |     | .03 |     |     |     |      | .72  |     |    |    |    |    |    |    |    |    |    | 1.57   |
| Paterson.....                              | Passaic.....    |               |   |   |   |     | T. |     |     | .35     | .02  |     | .10 | .25 |     | T.  | .04 | .15 |     |     |      | .48  |     |    |    |    |    |    |    |    |    |    | 1.39   |
| Plainfield.....                            | Raritan.....    |               |   |   |   |     |    |     |     | .09     | .05  |     | .27 | .15 |     | T.  | .14 | .27 |     |     |      | .57  |     |    |    |    |    |    |    |    |    |    | 1.54   |
| Somerville.....                            | Raritan.....    |               |   |   |   |     |    |     |     | .15     |      |     | .45 |     |     |     | .03 | .08 |     |     |      | .57  |     |    |    |    |    |    |    |    |    |    | 1.28   |
| South Orange.....                          | Rahway.....     |               |   |   |   |     |    |     |     | .27     |      |     | T.  | .40 |     | T.  | T.  |     |     |     | 1.18 |      |     |    |    |    |    |    |    |    |    |    | 1.85   |
| Woodcliffe Lake.....                       | Hackensack..... |               |   |   |   |     |    |     |     | .05     | .40  |     | .02 | .37 | .03 |     | .15 |     |     |     | .69  |      |     |    |    |    |    |    |    |    |    |    | 1.71   |
| New York, N. Y***                          | Coast.....      |               |   |   |   | T.  |    |     |     | .20     | .32  |     | .19 | .19 |     | T.  | .07 |     |     |     | .61  |      |     |    |    |    |    |    |    |    |    |    | 1.58   |
| <i>The Southern Interior.</i>              |                 |               |   |   |   |     |    |     |     |         |      |     |     |     |     |     |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |        |
| Belle Plain.....                           | Tuckahoe.....   |               |   |   |   |     |    | .01 |     | .34     |      |     | T.  | .17 |     |     |     |     |     | T.  |      | .39  |     |    |    |    |    |    |    | T. |    |    | 0.91   |
| Bridgeton.....                             | Coast.....      |               |   |   |   |     |    | .25 |     | T.      |      |     | T.  | .25 |     |     | T.  |     |     |     | .10  |      |     |    |    |    |    |    |    |    |    |    | 0.86   |
| Burlington.....                            | Delaware.....   |               |   |   |   |     |    | .34 | .03 |         |      | .11 | .40 |     |     |     | T.  | .26 |     |     | .40  |      |     |    |    |    |    |    |    |    |    |    | 1.12   |
| Camp Dix   .....                           | Delaware.....   |               |   |   |   |     |    | .17 | .20 |         |      | .19 | .20 |     |     |     | .02 |     |     |     | .08  |      |     |    |    |    |    |    |    |    |    |    | 0.87   |
| Hammonton.....                             | Mullica.....    |               |   |   |   |     |    | .24 | .02 |         |      | .37 |     |     |     |     |     |     |     |     | .24  |      |     |    |    |    |    |    |    |    |    |    | 1.38   |
| Hightstown.....                            | Raritan.....    |               |   |   |   |     |    | .16 | .05 |         |      | .50 |     |     |     |     | .13 |     |     |     | .54  |      |     |    |    |    |    |    |    |    |    |    | 1.11   |
| Imlaystown.....                            | Delaware.....   | .06           |   |   |   |     |    |     |     | T.      |      |     | .50 |     |     |     | .20 |     |     |     | .35  |      |     |    |    |    |    |    |    |    |    |    |        |
| Indian Mills.....                          | Mullica.....    | .05           |   |   |   |     |    |     |     | .29     | .02  |     | .40 |     |     | T.  |     |     |     |     | .27  |      |     |    |    |    |    |    |    |    |    |    | 1.03   |
| Lakewood.....                              | Metedeconk..... | .04           |   |   |   |     |    |     |     | .90     | T.   |     | .35 |     |     |     | T.  |     |     |     | .32  |      |     |    |    |    |    |    |    |    |    |    | 1.64   |
| Lumberton.....                             | Delaware.....   |               |   |   |   |     |    |     |     |         |      |     |     |     |     |     |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    | 0.95   |
| Moorestown.....                            | Delaware.....   |               |   |   |   |     |    | .20 |     |         |      | .11 | .27 |     | .01 |     |     |     |     |     | .36  |      |     |    |    |    |    |    |    |    |    |    | 0.94   |
| Northfield.....                            | Coast.....      |               |   |   |   |     |    | .21 |     |         |      | T.  | .17 |     |     |     | .02 |     |     | T.  | .54  |      |     |    |    |    |    |    |    |    |    |    | 0.67   |
| Pleasantville.....                         | Coast.....      |               |   |   |   |     |    |     |     | T.      |      |     | .14 |     |     |     |     |     |     |     | .53  |      |     |    |    |    |    |    |    |    |    |    | 0.89   |
| Trenton***.....                            | Delaware.....   |               |   |   |   |     |    | .05 | .02 |         |      | T.  | .12 | .35 |     | T.  | .07 |     |     | T.  | .01  | .27  |     |    |    |    |    |    |    |    |    |    |        |
| Tuckerton.....                             | Coast.....      | .08           |   |   |   |     |    |     |     | 1.30    | .02  |     | .30 |     |     |     |     |     |     |     | .62  |      |     |    |    |    |    |    |    |    |    |    | 2.32   |
| Vineland.....                              | Maurice.....    | .02           |   |   |   |     |    |     |     | .31     |      |     | .27 |     |     |     |     |     |     | .01 | .34  |      |     |    |    |    |    |    |    |    |    |    | 0.95   |
| Philadelphia, Pa.....                      | Delaware.....   |               |   |   |   |     |    | .16 | .07 |         |      | T.  | .11 | .24 |     | T.  | .15 |     |     |     | .02  | .48  |     |    |    |    |    |    |    |    |    |    | 1.23   |
| <i>The Sea Coast.</i>                      |                 |               |   |   |   |     |    |     |     |         |      |     |     |     |     |     |     |     |     |     |      |      |     |    |    |    |    |    |    |    |    |    |        |
| Asbury Park.....                           | Coast.....      |               |   |   |   |     |    |     |     | .75     | .01  |     | T.  | .06 | .29 |     |     | .01 | .01 |     |      | .33  |     |    |    |    |    |    |    |    |    |    | 1.46   |
| Atlantic City***.....                      | do.....         |               |   |   |   |     |    | .28 | .26 |         |      | T.  | T.  | .19 |     |     | .03 |     |     | T.  | .32  |      |     |    |    |    |    |    |    |    |    |    | 1.08   |
| Cape May City.....                         | do.....         |               |   |   |   |     |    | T.  | .37 |         |      |     | .19 |     |     |     |     |     |     | T.  | .57  |      |     |    |    |    |    |    |    |    |    |    | 1.13   |
| Long Branch**.....                         | do.....         |               |   |   |   |     |    | .15 | .57 |         |      | T.  | .05 | .35 |     |     |     |     |     |     | .36  |      |     |    |    |    |    |    |    |    |    |    | 1.48   |
| Sandy Hook***.....                         | do.....         |               |   |   |   |     |    | .29 | .41 |         |      | T.  | .12 | .24 |     | T.  | .02 | T.  |     |     | .24  |      |     |    |    |    |    |    |    |    |    |    | 1.32   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T, Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            | Moisture. |                                            | Sun-<br>shine                              |                                    |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-----------|--------------------------------------------|--------------------------------------------|------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |           | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date.     |                                            |                                            |                                    |
| Atlantic City.....    | 29.98         | 30.31    | 24    | 29.50   | 9     | 17               | 50              | sw.        | 16        | 78                                         | 81                                         | 70                                 |
| Cape May City.....    | 30.01         | 30.32    | 24    | 29.56   | 12    | 9                | 27              | se.        | 20        | 74                                         | 81                                         | 73                                 |
| Long Branch.....      | 29.96         | 30.27    | 24    | 29.47   | 9     | .....            | 38              | w.         | 17        | 76                                         | 72                                         | 74                                 |
| Newark.....           | 29.96         | 30.32    | 24    | 29.42   | 12    | 16               | 48              | sw.        | 12        | 71                                         | 70                                         | 79                                 |
| New York, N. Y.....   | 29.97         | 30.34    | 24    | 29.45   | 12    | 10               | 40              | sw.        | 8         | 64                                         | 56                                         | 77                                 |
| Philadelphia, Pa..... | 29.95         | 30.32    | 24    | 29.40   | 12    | 13               | 43              | s.         | 16        | 73                                         | 71                                         | 79                                 |
| Sandy Hook.....       | 29.95         | 30.31    | 24    | 29.40   | 12    | 11               | 42              | sw.        | 16        | 68                                         | 59                                         | 81                                 |
| Trenton.....          |               |          |       |         |       |                  |                 |            |           |                                            |                                            |                                    |

\* 7 a. m. † 9 p. m.



Daily Temperatures for May, 1923.

| Stations.                            | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15  | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31                | Mean.             |                   |
|--------------------------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                       | Maximum..... | 66 | 68 | 72 | 82 | 77 | 73 | 77 | 77 | 66 | 55 | 67 | 73 | 67 | 69  | 64 | 75 | 71 | 71 | 75 | 76 | 69 | 68 | 71 | 73 | 81 | 82 | 81 | 80 | 84 | 78                | 78                | 73.1              |
|                                      | Minimum..... | 35 | 35 | 36 | 37 | 45 | 48 | 40 | 40 | 41 | 35 | 30 | 49 | 49 | 41  | 47 | 53 | 50 | 44 | 44 | 48 | 52 | 45 | 45 | 39 | 44 | 50 | 50 | 46 | 51 | 45                | 47                | 43.9              |
| Charlotteburg.....                   | Maximum..... | 60 | 64 | 66 | 76 | 75 | 72 | 75 | 74 | 67 | 54 | 64 | 73 | 65 | 70  | 62 | 73 | 64 | 68 | 72 | 73 | 60 | 66 | 69 | 72 | 84 | 84 | 78 | 78 | 80 | 79                | 70                | 70.5              |
|                                      | Minimum..... | 37 | 30 | 32 | 36 | 34 | 47 | 30 | 45 | 43 | 31 | 26 | 47 | 52 | 40  | 39 | 47 | 51 | 43 | 43 | 39 | 49 | 48 | 43 | 31 | 37 | 55 | 52 | 35 | 40 | 34                | 40                | 40.5              |
| Dover.....                           | Maximum..... | 63 | 70 | 69 | 81 | 73 | 72 | 76 | 72 | 61 | 53 | 67 | 73 | 67 | 72  | 55 | 75 | 66 | 72 | 74 | 74 | 65 | 68 | 72 | 74 | 84 | 85 | 83 | 78 | 84 | 80                | 70                | 71.9              |
|                                      | Minimum..... | 37 | 35 | 37 | 40 | 41 | 50 | 37 | 45 | 40 | 34 | 29 | 50 | 48 | 42  | 43 | 52 | 52 | 45 | 48 | 46 | 51 | 48 | 45 | 38 | 46 | 54 | 52 | 42 | 49 | 42                | 46                | 44.0              |
| Layton.....                          | Maximum..... | 64 | 68 | 71 | 82 | 75 | 74 | 75 | 74 | 63 | 52 | 65 | 69 | 65 | 70  | 54 | 75 | 72 | 70 | 76 | 75 | 65 | 67 | 70 | 72 | 84 | 84 | 80 | 79 | 82 | 78                | 74                | 71.7              |
|                                      | Minimum..... | 32 | 32 | 31 | 35 | 38 | 48 | 32 | 41 | 39 | 34 | 25 | 48 | 40 | 32  | 45 | 52 | 51 | 43 | 45 | 41 | 50 | 49 | 39 | 32 | 39 | 44 | 49 | 40 | 41 | 40                | 38                | 40.3              |
| Newton.....                          | Maximum..... | 63 | 67 | 70 | 75 | 73 | 73 | 73 | 73 | 65 | 52 | 65 | 68 | 64 | 65  | 64 | 74 | 70 | 70 | 73 | 68 | 68 | 67 | 69 | 70 | 77 | 77 | 75 | 75 | 77 | 75                | 73                | 69.9              |
|                                      | Minimum..... | 37 | 41 | 36 | 39 | 42 | 45 | 41 | 48 | 42 | 35 | 31 | 48 | 48 | 47  | 50 | 52 | 50 | 43 | 45 | 45 | 51 | 48 | 43 | 41 | 48 | 52 | 47 | 52 | 53 | 50                | 44                | 45.0              |
| Phillipsburg.....                    | Maximum..... | 69 | 72 | 72 | 84 | 79 | 77 | 77 | 77 | 67 | 57 | 65 | 65 | 77 | 76  | 72 | 64 | 77 | 77 | 72 | 75 | 76 | 67 | 70 | 72 | 80 | 87 | 87 | 88 | 82 | 76                | 74.7 <sup>b</sup> |                   |
|                                      | Minimum..... | 39 | 37 | 40 | 42 | 46 | 49 | 39 | 47 | 37 | 43 | 32 | 52 | 42 | 43  | 49 | 53 | 51 | 46 | 52 | 49 | 54 | 49 | 48 | 44 | 51 | 52 | 53 | 49 | 50 | 46.1 <sup>c</sup> |                   |                   |
| Sussex.....                          | Maximum..... | 64 | 70 | 70 | 80 | 78 | 76 | 77 | 76 | 67 | 53 | 67 | 69 | 65 | 73  | 65 | 77 | 73 | 73 | 79 | 77 | 66 | 69 | 71 | 75 | 86 | 85 | 82 | 84 | 80 | 73.1 <sup>d</sup> |                   |                   |
|                                      | Minimum..... | 34 | 33 | 33 | 35 | 38 | 41 | 45 | 35 | 26 | 50 | 35 | 38 | 43 | 52  | 52 | 52 | 43 | 46 | 44 | 51 | 50 | 45 | 40 | 47 | 41 | 42 | 41 | 42 | 41 | 41.1 <sup>e</sup> |                   |                   |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                    | Maximum..... | 58 | 65 | 68 | 76 | 65 | 69 | 70 | 71 | 62 | 65 | 79 | 70 | 69 | 60  | 77 | 67 | 77 | 75 | 69 | 63 | 69 | 70 | 69 | 79 | 89 | 79 | 89 | 79 | 66 | 70.5 <sup>a</sup> |                   |                   |
|                                      | Minimum..... | 43 | 45 | 45 | 45 | 47 | 53 | 52 | 48 | 47 | 39 | 36 | 53 | 53 | 46  | 47 | 53 | 57 | 55 | 53 | 53 | 53 | 53 | 53 | 53 | 59 | 56 | 51 | 51 | 56 | 51                | 49.8 <sup>b</sup> |                   |
| Boonton§§.....                       | Maximum..... | 63 | 68 | 69 | 79 | 71 | 72 | 73 | 75 | 56 | 54 | 65 | 75 | 67 | 70  | 65 | 75 | 65 | 71 | 73 | 74 | 66 | 69 | 70 | 72 | 83 | 83 | 82 | 75 | 83 | 78                | 69                | 71.3              |
|                                      | Minimum..... | 36 | 35 | 34 | 38 | 37 | 46 | 36 | 38 | 51 | 34 | 26 | 42 | 53 | 38  | 39 | 47 | 54 | 46 | 46 | 42 | 50 | 50 | 44 | 37 | 41 | 47 | 50 | 39 | 44 | 40                | 45                | 42.1              |
| Elizabeth.....                       | Maximum..... | 65 | 67 | 70 | 80 | 73 | 73 | 74 | 75 | 64 | 55 | 67 | 81 | 75 | 72  | 65 | 79 | 77 | 74 | 78 | 76 | 67 | 72 | 72 | 85 | 88 | 85 | 75 | 87 | 81 | 68                | 73.9              |                   |
|                                      | Minimum..... | 38 | 40 | 39 | 45 | 43 | 50 | 41 | 46 | 47 | 37 | 34 | 55 | 55 | 41  | 44 | 52 | 56 | 48 | 51 | 49 | 56 | 52 | 48 | 44 | 47 | 55 | 52 | 48 | 56 | 47                | 47.3              |                   |
| Flemington.....                      | Maximum..... | 67 | 72 | 72 | 83 | 80 | 72 | 78 | 74 | 71 | 58 | 68 | 80 | 71 | 72  | 67 | 79 | 76 | 73 | 74 | 78 | 70 | 70 | 74 | 73 | 83 | 87 | 83 | 80 | 84 | 81                | 75                | 75.0              |
|                                      | Minimum..... | 39 | 38 | 39 | 41 | 44 | 52 | 39 | 42 | 42 | 37 | 31 | 52 | 53 | 44  | 44 | 52 | 53 | 47 | 52 | 46 | 53 | 49 | 48 | 43 | 46 | 52 | 53 | 45 | 54 | 45                | 49                | 45.9              |
| Highwood.....                        | Maximum..... | 65 | 65 | 68 | 75 | 69 | 71 | 73 | 72 | 61 | 56 | 61 | 75 | 67 | 71  | 58 | 77 | 69 | 75 | 74 | 72 | 60 | 67 | 69 | 71 | 86 | 87 | 76 | 71 | 79 | 73                | 66                | 70.3              |
|                                      | Minimum..... | 39 | 36 | 36 | 39 | 48 | 37 | 45 | 47 | 37 | 30 | 50 | 53 | 38 | 43  | 53 | 56 | 47 | 49 | 47 | 53 | 52 | 46 | 38 | 44 | 53 | 51 | 44 | 48 | 43 | 49                | 45.0 <sup>a</sup> |                   |
| Jersey City.....                     | Maximum..... | 66 | 68 | 70 | 72 | 72 | 74 | 74 | 74 | 64 | 55 | 65 | 80 | 69 | 70  | 55 | 77 | 76 | 70 | 74 | 73 | 72 | 70 | 72 | 72 | 83 | 86 | 84 | 76 | 86 | 79                | 69                | 72.3 <sup>a</sup> |
|                                      | Minimum..... | 42 | 48 | 45 | 49 | 48 | 51 | 51 | 52 | 45 | 38 | 39 | 51 | 53 | 47  | 45 | 55 | 56 | 49 | 59 | 56 | 52 | 53 | 51 | 54 | 61 | 60 | 55 | 53 | 57 | 55                | 50.7              |                   |
| Lambertville.....                    | Maximum..... | 65 | 68 | 68 | 79 | 72 | 70 | 75 | 72 | 63 | 54 | 67 | 78 | 65 | 71  | 61 | 77 | 70 | 70 | 74 | 75 | 66 | 67 | 70 | 72 | 81 | 83 | 80 | 84 | 79 | 72                | 72.0              |                   |
|                                      | Minimum..... | 40 | 39 | 40 | 44 | 43 | 50 | 48 | 44 | 39 | 35 | 32 | 53 | 52 | 43  | 45 | 58 | 52 | 47 | 54 | 50 | 53 | 49 | 45 | 45 | 54 | 55 | 46 | 57 | 48 | 49                | 47.0              |                   |
| Little Falls§§.....                  | Maximum..... | 70 | 73 | 76 | 79 | 69 | 78 | 77 | 73 | 58 | 56 | 68 | 82 | 69 | 78  | 66 | 81 | 72 | 74 | 80 | 79 | 65 | 71 | 74 | 78 | 85 | 87 | 87 | 75 | 87 | 80                | 69                | 74.7              |
|                                      | Minimum..... | 38 | 38 | 37 | 41 | 41 | 49 | 38 | 45 | 52 | 38 | 40 | 44 | 53 | 39  | 43 | 50 | 56 | 48 | 45 | 46 | 53 | 50 | 47 | 38 | 45 | 51 | 52 | 43 | 48 | 43                | 47                | 44.8              |
| Newark.....                          | Maximum..... | 65 | 68 | 70 | 81 | 66 | 73 | 71 | 70 | 60 | 54 | 64 | 79 | 69 | 73  | 56 | 78 | 68 | 73 | 76 | 71 | 65 | 70 | 73 | 73 | 86 | 88 | 81 | 71 | 85 | 80                | 63                | 71.6              |
|                                      | Minimum..... | 45 | 46 | 45 | 51 | 48 | 52 | 50 | 50 | 41 | 40 | 54 | 55 | 48 | 50  | 55 | 58 | 53 | 58 | 55 | 55 | 53 | 53 | 51 | 55 | 60 | 57 | 51 | 56 | 53 | 52                | 51.3              |                   |
| New Brunswick.....                   | Maximum..... | 65 | 67 | 69 | 79 | 77 | 70 | 74 | 75 | 69 | 55 | 71 | 80 | 75 | 70  | 65 | 78 | 76 | 70 | 74 | 78 | 68 | 70 | 70 | 83 | 86 | 85 | 80 | 87 | 80 | 71                | 73.7              |                   |
|                                      | Minimum..... | 36 | 38 | 39 | 44 | 43 | 49 | 40 | 44 | 43 | 36 | 31 | 53 | 54 | 42  | 42 | 52 | 55 | 46 | 53 | 50 | 53 | 52 | 48 | 44 | 46 | 53 | 52 | 48 | 54 | 41                | 46.2              |                   |
| Paterson.....                        | Maximum..... | 67 | 69 | 70 | 81 | 71 | 74 | 76 | 74 | 61 | 56 | 63 | 79 | 73 | 74  | 61 | 78 | 71 | 76 | 77 | 77 | 64 | 70 | 73 | 75 | 79 | 80 | 83 | 79 | 87 | 82                | 74.3              |                   |
|                                      | Minimum..... | 41 | 45 | 41 | 45 | 45 | 41 | 41 | 47 | 50 | 37 | 35 | 52 | 54 | 43  | 46 | 53 | 56 | 49 | 53 | 50 | 53 | 52 | 50 | 42 | 50 | 60 | 57 | 49 | 52 | 49                | 48                | 47.9              |
| Plainfield.....                      | Maximum..... | 66 | 69 | 71 | 79 | 73 | 75 | 75 | 65 | 55 | 69 | 80 | 69 | 70 | ... | 78 | 70 | 73 | 75 | 74 | 73 | 71 | 73 | 73 | 73 | 83 | 87 | 84 | 77 | 87 | 79                | 69                | 73.9 <sup>b</sup> |
|                                      | Minimum..... | 38 | 35 | 39 | 40 | 40 | 51 | 36 | 40 | 45 | 36 | 28 | 50 | 53 | 38  | 39 | 50 | 55 | 47 | 49 | 46 | 52 | 52 | 48 | 38 | 45 | 52 | 50 | 42 | 52 | 44                | 47.5              |                   |
| Somerville.....                      | Maximum..... | 67 | 72 | 72 | 83 | 76 | 74 | 76 | 75 | 68 | 56 | 69 | 82 | 69 | 73  | 64 | 80 | 75 | 74 | 75 | 79 | 70 | 72 | 74 | 73 | 85 | 87 | 85 | 81 | 88 | 80                | 74                | 75.1              |
|                                      | Minimum..... | 35 | 35 | 38 | 39 | 40 | 50 | 41 | 40 | 45 | 37 | 27 | 52 | 54 | 40  | 43 | 52 | 55 | 46 | 50 | 45 | 53 | 50 | 46 | 43 | 49 | 48 | 43 | 49 | 48 | 47                | 44.6              |                   |
| South Orange.....                    | Maximum..... | 64 | 65 | 64 | 77 | 68 | 70 | 70 | 72 | 57 | 53 | 65 | 76 | 69 | 69  | 60 | 76 | 67 | 72 | 73 | 72 | 65 | 69 | 70 | 71 | 82 | 84 | 79 | 72 | 81 | 76                | 66                | 70.1              |
|                                      | Minimum..... | 40 | 42 | 42 | 46 | 46 | 52 | 47 | 45 | 43 | 32 | 32 | 53 | 54 | 43  | 45 | 56 | 54 | 48 | 48 | 50 | 53 | 52 | 50 | 45 | 51 | 58 | 56 | 48 | 55 | 52                | 48                | 48.2 <sup>b</sup> |
| New York, N. Y.....                  | Maximum..... | 62 | 64 | 66 | 74 | 61 | 69 | 69 | 64 | 58 | 54 | 61 | 75 | 66 | 68  | 57 | 72 | 65 | 72 | 72 | 68 | 61 | 68 | 67 | 67 | 79 | 81 | 78 | 68 | 80 | 76                | 62                | 67.9              |
|                                      | Minimum..... | 43 | 48 |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |



# CLIMATOLOGICAL DATA

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVIII.

JUNE, 1923.

No. 6.

### GENERAL SUMMARY.

The month of June was remarkable for its extreme heat and dryness, and excess of sunshine. The average temperature of the entire State exceeded, by a fraction of a degree, the record of any previous June. The extreme highest, 106°, also was a record breaker. The heat occurred in two periods, from the 2d to the 6th, and from the 17th to the 27th, during which daytime readings were very persistently in the upper 80's, 90's, and a few in the 100's. During the second hot wave there was an almost total absence of rain, and crop conditions became very serious as a result, and many wells and springs dried up, thus adding to the agricultural difficulty. The heat practically cancelled the temperature deficiency of the year to date, and the lack of rain further contributed to the year's accumulated precipitation deficiency. There were a few stations, however, in extreme northern counties, where the rainfall was normal or slightly above. The State average was less than in any June since 1912 and 1913. The clearness of the sky was indicated by the record of 100% sunshine for the month in Trenton during the hour of 11 o'clock to noon, standard time. A further contrast in this remarkable month was an occurrence of light frost a few miles to the northwest of Layton, Sussex County in the Delaware valley, on the morning of the 30th. The rain shortage during the crop season, April, May and June, combined, amounted to slightly more than 50%. Hay and grain were prematurely ripening on this account, with indications of a diminished yield in volume.

Out-of-door pursuits were greatly facilitated by the clear weather.

No storm warnings were displayed.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 34 stations, was 72.5°, which was 3.8° above the normal. The highest temperature was 106° at Belle Plain on the 21st, and the lowest, 37° at Belle Plain on the 1st. The highest monthly mean temperature was 75.6° at Bridgeton, Moorestown, and Vineland, and the lowest, 68.4° at Charlotteburg. The greatest daily range of temperature was 47° at Belle Plain on the 14th.

The temperature departure from the normal for the year 1923, to date by sections, is: The Highlands, -0.6°; Red Sandstone Plain, -0.5°; Southern Interior, +0.4°; Sea Coast, -0.1°.

### PRECIPITATION.

The average total rainfall for the State, as deduced from observations of 43 stations, was 2.08 inches, which was 1.70 inches below the normal. The greatest monthly amount was 5.44 inches at Dover, and the least, 0.72 inch at Pleasantville. The greatest amount of rain in 24 consecutive hours was 2.55 inches at Dover on the 6th and 7th. The average number of days on which 0.01 inch or more rain fell was 7 which was 2 less than the normal. The precipitation accumulated departure from the normal for the year 1923, to date, by sections, is: The Highlands, -3.26 inches; Red Sandstone Plain, -4.02 inches; Southern Interior, -2.17 inches; Sea Coast, -2.24 inches.

### WIND.

The prevailing wind direction for the month was from the southwest, with an average velocity of 12 miles per hour, which was 2 miles above the normal. The highest velocity for the month, sustained for five consecutive minutes, was 50 miles per hour from the northwest on the 8th at Atlantic City. High winds were also noted on the 9th and 26th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, or 6 more than the normal; partly cloudy, 8, which was 3 less than the normal; cloudy, 4, which was 3 less than the normal. The percentage of possible sunshine was 76, which was 15 per cent more than the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.5 feet, and the highest stage, 3.3 feet on the 10th. At Trenton the mean daily stage was 1.0 foot, which was 0.9 foot below the normal; the highest stage was 2.0 feet on the 10th and 11th.

The mean atmospheric pressure, reduced to sea level, was 29.91 inches, which was 0.07 inch below the normal. The highest reading was 30.26 inches at Cape May City on the 1st, and the lowest, 29.32 inches at Trenton on the 26th.

Thunderstorms occurred in some portions of the State on the 2d, 3d, 4th, 6th, 7th, 8th, 15th, 16th, 21st, 23d, 24th, 25th, 26th, 27th, 28th, and 29th. Solar halos were observed on the 3d, 10th, 11th, 12th, 16th, and 27th. Dense fog occurred on the 18th and 24th.

Light frost occurred at Layton in the northwestern part of Sussex County on the 30th.

### COMPARATIVE DATA FOR JUNE.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 68.7         | 97       | 39      | 1.79           | 3.37      | 0.72   | .....        | .....          | .....   | .....                  |
| 1886..... | 67.1         | 91       | 41      | 3.38           | 5.79      | 2.22   | .....        | .....          | .....   | .....                  |
| 1887..... | 68.2         | 97       | 42      | 6.77           | 10.29     | 4.21   | .....        | .....          | 9       | 10                     |
| 1888..... | 70.8         | 99       | 39      | 2.59           | 5.69      | 1.67   | .....        | .....          | 5       | 6                      |
| 1889..... | 69.9         | 91       | 40      | 3.73           | 6.75      | 2.39   | .....        | .....          | 10      | 10                     |
| 1890..... | 70.7         | 95       | 42      | 3.59           | 5.16      | 0.99   | 11           | 13             | 6       | 7                      |
| 1891..... | 69.7         | 102      | 38      | 2.92           | 6.71      | 1.24   | 14           | 9              | 7       | 5                      |
| 1892..... | 72.4         | 98       | 44      | 3.85           | 6.12      | 1.58   | 10           | 12             | 8       | 11                     |
| 1893..... | 69.7         | 103      | 40      | 2.95           | 7.02      | 0.46   | 10           | 11             | 9       | 8                      |
| 1894..... | 70.6         | 102      | 35      | 2.28           | 5.90      | 0.99   | 14           | 11             | 5       | 9                      |
| 1895..... | 71.7         | 103      | 39      | 3.24           | 5.99      | 0.93   | 11           | 11             | 8       | 10                     |
| 1896..... | 68.1         | 96       | 37      | 5.46           | 13.45     | 2.64   | 12           | 10             | 8       | 10                     |
| 1897..... | 66.1         | 95       | 35      | 3.38           | 5.50      | 2.12   | 10           | 13             | 7       | 10                     |
| 1898..... | 70.1         | 100      | 38      | 2.10           | 3.54      | 1.13   | 14           | 12             | 4       | 8                      |
| 1899..... | 72.3         | 103      | 38      | 2.50           | 4.34      | 1.01   | 15           | 10             | 5       | 7                      |
| 1900..... | 70.4         | 97       | 39      | 3.08           | 4.91      | 1.10   | 12           | 12             | 6       | 8                      |
| 1901..... | 70.0         | 103      | 35      | 1.87           | 4.36      | 0.73   | 18           | 8              | 4       | 5                      |
| 1902..... | 67.5         | 99       | 37      | 6.57           | 10.21     | 4.54   | 14           | 11             | 5       | 11                     |
| 1903..... | 64.0         | 92       | 37      | 7.68           | 15.02     | 2.39   | 6            | 10             | 14      | 15                     |
| 1904..... | 68.6         | 100      | 34      | 3.13           | 5.44      | 1.91   | 13           | 10             | 7       | 12                     |
| 1905..... | 68.3         | 96       | 35      | 3.43           | 8.71      | 1.67   | 11           | 12             | 7       | 10                     |
| 1906..... | 70.4         | 98       | 38      | 4.48           | 9.18      | 1.45   | 11           | 11             | 8       | 12                     |
| 1907..... | 64.7         | 96       | 31      | 4.41           | 6.85      | 3.15   | 12           | 10             | 8       | 10                     |
| 1908..... | 69.9         | 99       | 35      | 2.32           | 4.63      | 0.77   | 16           | 12             | 2       | 4                      |
| 1909..... | 70.0         | 99       | 36      | 3.26           | 5.70      | 1.71   | 9            | 10             | 11      | 12                     |
| 1910..... | 66.9         | 95       | 34      | 5.17           | 8.01      | 2.66   | 9            | 10             | 11      | 13                     |
| 1911..... | 68.9         | 97       | 40      | 5.36           | 10.11     | 2.84   | 9            | 12             | 9       | 14                     |
| 1912..... | 68.0         | 98       | 33      | 1.94           | 3.61      | 0.91   | 9            | 12             | 9       | 8                      |
| 1913..... | 69.1         | 98       | 31      | 1.80           | 3.76      | 0.68   | 19           | 8              | 3       | 5                      |
| 1914..... | 68.5         | 98       | 35      | 2.66           | 4.85      | 1.09   | 16           | 9              | 6       | 7                      |
| 1915..... | 67.0         | 95       | 37      | 3.12           | 6.51      | 1.40   | 13           | 10             | 7       | 11                     |
| 1916..... | 64.7         | 87       | 36      | 4.20           | 5.99      | 2.22   | 10           | 9              | 11      | 13                     |
| 1917..... | 68.9         | 95       | 40      | 4.27           | 7.14      | 2.80   | 13           | 10             | 7       | 12                     |
| 1918..... | 66.3         | 96       | 32      | 3.43           | 6.21      | 1.35   | 15           | 9              | 6       | 8                      |
| 1919..... | 69.5         | 99       | 38      | 3.16           | 3.58      | 0.37   | 16           | 7              | 7       | 8                      |
| 1920..... | 68.4         | 98       | 38      | 6.18           | 11.26     | 3.12   | 13           | 9              | 8       | 12                     |
| 1921..... | 70.4         | 100      | 33      | 3.23           | 5.64      | 1.40   | 18           | 7              | 5       | 8                      |
| 1922..... | 71.1         | 95       | 39      | 6.31           | 11.50     | 2.97   | 12           | 9              | 9       | 15                     |
| 1923..... | 72.5         | 106      | 37      | 2.08           | 5.44      | 0.72   | 18           | 8              | 4       | 7                      |



## Climatological Data for June, 1923.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                                                                                                                          |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                                                                                                                  |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289              | 32                       | 71.2 <sup>a</sup>             | +2.4                       | 96       | 20†   | 44      | 30    | 36                        | 2.99   | -1.01                      | 1.00                  | 0                          | 10                             | 22     | 4           | 4                             | .....      | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719              | 31                       | 68.4                          | +3.6                       | 94       | 20    | 39      | 1     | 42                        | 4.58   | +0.46                      | 1.50                  | 0                          | 8                              | 19     | 7           | 4                             | w.         |                                                                                                                          |
| Culvers Lake.....                           | Sussex.....     | 848              | 22                       | .....                         | .....                      | .....    | ..... | 43      | 16    | .....                     | 2.45   | -2.16                      | 0.56                  | 0                          | 9                              | 16     | 9           | 5                             | n.         |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600              | 39                       | 70.6                          | +3.9                       | 98       | 25    | 46      | 30    | 37                        | 5.44   | +1.41                      | 2.55                  | 0                          | 8                              | 7      | 17          | 6                             | .....      |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480              | 22                       | 68.7                          | +3.2                       | 96       | 20†   | 38      | 30    | 41                        | 3.37   | -0.42                      | 0.97                  | 0                          | 8                              | 19     | 7           | 4                             | nw.        | A. M. Dupue.<br>Irving G. Kern.<br>Town Engineer.<br>Rev. W. August George                                               |
| Newton.....                                 | Sussex.....     | 769              | 40                       | .....                         | .....                      | .....    | ..... | 45      | 30    | .....                     | 2.87   | -1.11                      | 1.02                  | 0                          | 10                             | 17     | 9           | 4                             | sw.        |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363              | 40                       | 72.5                          | +3.2                       | 101      | 20    | 48      | 1†    | 42                        | 1.77   | -1.86                      | 0.77                  | 0                          | 4                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442              | 29                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Means and extremes...                       |                 |                  |                          | 70.3                          | +3.3                       | 101      | 20    | 38      | 30    | 42                        | 3.35   | -0.67                      | 2.55                  | 0                          | 8                              | 17     | 9           | 4                             | sw.        |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Bergen Point.....                           | Hudson.....     | 37               | 26                       | 72.7                          | +4.3                       | 99       | 20    | 53      | 14    | 33                        | 1.73   | -2.05                      | 0.60                  | 0                          | 7                              | 7      | 22          | 1                             | nw.        | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400              | 33                       | 69.5                          | +1.9                       | 96       | 20    | 43      | 1†    | 41                        | 3.64   | -0.03                      | 1.80                  | 0                          | 7                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185              | 19                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.93   | -1.13                      | 1.02                  | 0                          | 6                              | 19     | 9           | 2                             | .....      |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45               | 44                       | 73.8                          | +3.3                       | 101      | 20†   | 47      | 30    | 36                        | 1.04   | -2.58                      | 0.40                  | 0                          | 5                              | 13     | 13          | 4                             | w.         |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140              | 37                       | 73.1                          | +3.9                       | 101      | 20    | 47      | 1†    | 43                        | 1.68   | -2.16                      | 0.82                  | 0                          | 8                              | 23     | 2           | 5                             | nw.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood.....                               | Bergen.....     | 90               | 35                       | 69.9                          | +2.3                       | 97       | 25    | 47      | 30    | 36                        | 4.11   | +0.42                      | 1.87                  | 0                          | 9                              | 13     | 10          | 7                             | nw.        |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10               | 25                       | 74.2                          | +3.3                       | 101      | 20    | 51      | 1     | 32                        | 2.35   | -1.15                      | 0.64                  | 0                          | 6                              | 13     | 12          | 5                             | nw.        |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370              | 36                       | 73.2                          | +3.5                       | 100      | 20    | 48      | 1     | 36                        | 0.56   | -3.35                      | 0.15                  | 0                          | 8                              | 21     | 6           | 3                             | w.         |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180              | 20                       | 72.8                          | +4.8                       | 100      | 24†   | 47      | 11†   | 40                        | 3.22   | -0.30                      | 1.40                  | 0                          | 7                              | 17     | 9           | 4                             | nw.        | Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                        |
| Newark.....                                 | Essex.....      | 159              | 81                       | 73.6                          | +4.3                       | 100      | 20    | 51      | 1     | 32                        | 3.26   | -0.50                      | 0.78                  | 0                          | 9                              | 17     | 8           | 5                             | sw.        |                                                                                                                          |
| New Brunswick.....                          | Middlesex.....  | 110              | 70                       | 72.8                          | +3.7                       | 99       | 20    | 47      | 1     | 39                        | 1.10   | -2.66                      | 0.58                  | 0                          | 7                              | 21     | 7           | 2                             | w.         |                                                                                                                          |
| New Milford.....                            | Bergen.....     | .....            | 3                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.50   | .....                      | 1.10                  | 0                          | 8                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80               | 52                       | 74.0                          | +4.2                       | 101      | 25    | 50      | 1     | 37                        | 2.26   | -1.86                      | 0.77                  | 0                          | 10                             | .....  | .....       | .....                         | .....      | Marion T. Probert.<br>E. D. Pearson.<br>H. B. TenEyck.<br>Dr. Wm. J. Chandler.                                           |
| Plainfield.....                             | Union.....      | 120              | 35                       | 72.4                          | +3.8                       | 100      | 20†   | 45      | 14    | 43                        | 1.41   | -2.33                      | 0.40                  | 0                          | 8                              | 14     | 12          | 4                             | sw.        |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70               | 40                       | 72.4                          | +3.3                       | 100      | 20    | 42      | 1     | 46                        | 2.27   | -1.47                      | 0.86                  | 0                          | 8                              | 23     | 0           | 7                             | nw.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200              | 53                       | 71.8 <sup>a</sup>             | +3.3                       | 96       | 20†   | 48      | 1     | 34                        | 2.27   | -1.28                      | 0.62                  | 0                          | 6                              | 11     | 15          | 4                             | w.         |                                                                                                                          |
| Woodcliff Lake.....                         | Bergen.....     | .....            | 3                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.79   | .....                      | 0.81                  | 0                          | 9                              | .....  | .....       | .....                         | .....      | Hackensack Water Co.<br>U. S. Weather Bureau.                                                                            |
| New York, N. Y.....                         | .....           | 365              | 53                       | 72.0                          | +3.2                       | 95       | 20    | 51      | 1     | 27                        | 1.86   | -1.40                      | 0.72                  | 0                          | 8                              | 11     | 9           | 10                            | nw.        |                                                                                                                          |
| Means and extremes...                       |                 |                  |                          | 72.6                          | +3.6                       | 101      | 20†   | 42      | 1     | 46                        | 2.30   | -1.50                      | 1.87                  | 0                          | 8                              | 16     | 10          | 4                             | nw.        |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30               | 29                       | 74.2 <sup>a</sup>             | +5.5                       | 106      | 21    | 37      | 1     | 47                        | 1.65   | -1.57                      | 0.63                  | 0                          | 7                              | 21     | 6           | 3                             | s.         | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                                                  |
| Bridgeton.....                              | Cumberland..... | 30               | 42                       | 75.6                          | +3.5                       | 100      | 21    | 48      | 1     | 37                        | 1.85   | -1.88                      | 0.63                  | 0                          | 6                              | 26     | 0           | 4                             | sw.        |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12               | 37                       | 75.0                          | +5.3                       | 102      | 20†   | 47      | 1     | 43                        | 2.77   | -1.11                      | 1.05                  | 0                          | 5                              | 22     | 4           | 4                             | nw.        |                                                                                                                          |
| Camp Dix.....                               | Burlington..... | 127              | 5                        | 73.1                          | .....                      | 99       | 20†   | 42      | 1     | 42                        | 2.91   | .....                      | 0.90                  | 0                          | 8                              | 21     | 7           | 2                             | sw.        |                                                                                                                          |
| Hammononton.....                            | Atlantic.....   | 103              | 22                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.70   | -1.82                      | 0.68                  | 0                          | 6                              | 23     | 7           | 0                             | sw.        | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                             | Mercer.....     | 120              | 31                       | 71.7                          | +2.7                       | 99       | 20†   | 44      | 1     | 40                        | 0.73   | -2.87                      | 0.23                  | 0                          | 5                              | 24     | 3           | 3                             | sw.        |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115              | 35                       | 72.2                          | +1.9                       | 100      | 20    | 44      | 11    | 42                        | 2.17   | -1.60                      | 0.66                  | 0                          | 9                              | 22     | 4           | 4                             | sw.        |                                                                                                                          |
| Indian Mills.....                           | Burlington..... | 76               | 34                       | 73.5                          | +3.7                       | 102      | 20    | 40      | 1     | 45                        | 1.18   | -2.95                      | 0.33                  | 0                          | 6                              | 14     | 13          | 3                             | sw.        |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54               | 19                       | 72.6                          | +5.1                       | 101      | 21    | 45      | 1     | 40                        | 1.43   | -2.28                      | 0.52                  | 0                          | 7                              | 21     | 3           | 6                             | sw.        | R. W. Holman.<br>Ralph B. Sterner.<br>John B. Warrick.<br>William L. Flick.                                              |
| Lumberton.....                              | Burlington..... | 20               | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | 0                          | 6                              | 22     | 5           | 3                             | w.         |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75               | 60                       | 75.6                          | +5.6                       | 105      | 21    | 46      | 1     | 38                        | 1.54   | -2.18                      | 1.00                  | 0                          | 6                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Northfield.....                             | Atlantic.....   | 25               | 16                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 0.91   | -2.76                      | 0.36                  | 0                          | 5                              | .....  | .....       | .....                         | .....      |                                                                                                                          |
| Pleasantville.....                          | Atlantic.....   | 26               | 25                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 0.72   | -3.21                      | 0.36                  | 0                          | 5                              | 24     | 2           | 4                             | .....      | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.                 |
| Trenton.....                                | Mercer.....     | 190              | 51                       | 73.5                          | +4.0                       | 98       | 20    | 50      | 1     | 32                        | 1.47   | -2.02                      | 0.43                  | 0                          | 5                              | 15     | 8           | 7                             | sw.        |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23               | 30                       | 72.8                          | +4.4                       | 100      | 21†   | 43      | 14    | 43                        | 1.45   | -2.38                      | 0.76                  | 0                          | 6                              | 21     | 8           | 1                             | nw.        |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109              | 54                       | 75.6                          | +4.4                       | 100      | 21    | 46      | 1     | 38                        | 1.98   | -1.59                      | 0.42                  | 0                          | 9                              | 21     | 7           | 2                             | sw.        |                                                                                                                          |
| Philadelphia, Pa.....                       | .....           | 117              | 53                       | 75.8                          | +4.4                       | 99       | 21    | 54      | 1     | 29                        | 0.65   | -2.65                      | 0.20                  | 0                          | 6                              | 12     | 12          | 6                             | nw.        |                                                                                                                          |
| Means and extremes...                       |                 |                  |                          | 73.8                          | +4.2                       | 106      | 21    | 37      | 1     | 47                        | 1.54   | -2.16                      | 1.05                  | 0                          | 6                              | 21     | 5           | 4                             | sw.        |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22               | 44                       | .....                         | .....                      | 98       | 25    | 49      | 21    | 38                        | 0.88   | -2.74                      | 0.37                  | 0                          | 8                              | 17     | 7           | 6                             | sw.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16               | 49                       | 70.8                          | +4.2                       | 95       | 2     | 53      | 14    | 34                        | 0.93   | -2.10                      | 0.26                  | 0                          | 7                              | 19     | 7           | 4                             | sw.        |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17               | 39                       | 71.6                          | +3.9                       | 96       | 25    | 52      | 14    | 30                        | 1.69   | -1.35                      | 0.62                  | 0                          | 9                              | 19     | 6           | 5                             | nw.        |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25               | 16                       | 70.6                          | +4.4                       | 98       | 25    | 52      | 1     | 32                        | 0.81   | -2.99                      | 0.28                  | 0                          | 8                              | 16     | 9           | 5                             | w.         |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22               | 25                       | 71.0                          | +3.2                       | 96       | 21    | 52      | 1     | 27                        | 0.95   | -3.01                      | 0.54                  | 0                          | 5                              | 12     | 13          | 5                             | w.         |                                                                                                                          |
| Means and extremes...                       |                 |                  |                          | 71.0                          | +3.9                       | 98       | 25    | 49      | 21    | 38                        | 1.05   | -2.44                      | 0.62                  | 0                          | 7                              | 17     | 8           | 5                             | w.         |                                                                                                                          |
| For the State.....                          |                 |                  |                          | 72.5                          | +3.8                       | 106      | 21    | 37      | 1     | 47                        | 2.08   | -1.70                      | 2.55                  | 0                          | 7                              | 18     | 8           | 4                             | sw.        |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc. T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Ridgefield is Morsemore; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



## Daily Precipitation for June, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |      |     |     |     |        |      |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |     |      |     |     |     |     |     |      | Total. |      |      |
|--------------------------------------------|-----------------|---------------|------|-----|-----|-----|--------|------|-----|-----|-----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|-----|-----|------|-----|-----|-----|-----|-----|------|--------|------|------|
|                                            |                 | 1             | 2    | 3   | 4   | 5   | 6      | 7    | 8   | 9   | 10  | 11  | 12  | 13 | 14 | 15  | 16  | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 24  | 25   | 26  | 27  | 28  | 29  | 30  | 31   |        |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |     |     |     |        |      |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |     |      |     |     |     |     |     |      |        |      |      |
| Belvidere.....                             | Delaware.....   |               |      | .56 |     |     | 1.00   | .28  | .15 |     |     |     |     |    |    | .26 |     |    |    |    |    |    |    | .12 | .02 | .10  | .45 |     | .05 |     |     |      | 2.99   |      |      |
| Charlotteburg.....                         | Passaic.....    |               | 1.50 | .14 |     |     | .50    | 1.06 |     | .02 |     |     |     |    |    | .22 |     |    |    |    |    |    |    |     |     | 1.07 |     | .07 |     |     |     | 4.58 |        |      |      |
| Culvers Lake.....                          | Delaware.....   |               | .52  |     |     |     | .55    | .56  | .19 |     |     |     |     |    |    | .34 |     |    |    |    |    |    |    | .03 |     |      | .20 |     | .05 | .01 |     |      | 2.45   |      |      |
| Dover.....                                 | Passaic.....    |               | .97  | .73 |     |     | * 2.55 | .82  |     |     |     |     |     |    |    | .23 |     |    |    |    |    |    |    |     |     |      | .07 |     | .07 |     |     |      | 5.44   |      |      |
| Layton.....                                | Delaware.....   |               | .37  | .03 |     |     | .58    | .71  | .26 |     |     |     |     |    |    | .24 |     |    |    |    |    |    |    |     |     |      | .97 |     | .21 |     |     |      | 3.37   |      |      |
| Newton.....                                | Delaware.....   |               | .60  | .13 |     |     | .08    | 1.02 | .51 | T.  |     |     |     |    |    | *   |     |    |    |    |    |    |    | .25 |     | .15  | T.  | .12 | .01 |     |     |      | 2.87   |      |      |
| Phillipsburg.....                          | do.....         |               | .77  |     |     |     | T.     | .43  |     |     |     |     |     |    |    | .30 |     |    |    |    |    |    |    |     |     |      | T.  |     | T.  |     |     |      | 1.77   |      |      |
| Sussex.....                                | Hudson.....     |               |      |     |     |     |        |      |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    | .27 | T.  |      | T.  |     | T.  |     |     |      |        |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |     |     |     |        |      |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |     |      |     |     |     |     |     |      |        |      |      |
| Bergen Point.....                          | Coast.....      |               | .45  |     |     |     | .22    | .60  |     |     |     |     |     |    |    | .22 |     |    |    |    |    |    |    |     |     |      | .18 | .02 | .04 |     |     |      | 1.73   |      |      |
| Boonton   .....                            | Passaic.....    |               |      | .75 | .21 |     | .60    | 1.80 | T.  |     |     |     |     |    |    | .21 |     |    |    |    |    |    |    |     |     |      |     | .05 |     | .02 |     |      | 3.64   |      |      |
| Chatham   .....                            | do.....         |               | .43  | T.  |     |     | .73    | 1.02 | T.  |     |     |     |     |    |    | .03 |     |    |    |    |    |    |    |     |     |      |     | .41 | *   | .31 |     |      | 2.93   |      |      |
| Elizabeth.....                             | Coast.....      |               | *    | .40 |     |     | *      | .40  | .14 | T.  |     |     |     |    |    | *   |     |    |    |    |    |    |    |     |     |      | *   | .07 | *   | .03 |     |      | 1.04   |      |      |
| Flemington.....                            | Raritan.....    |               | .61  | .21 |     |     | .47    | .03  |     |     |     |     |     |    |    | .09 |     |    |    |    |    |    |    | T.  | T.  |      |     | .23 | .02 | .02 |     |      | 1.68   |      |      |
| Highwood.....                              | Hackensack..... |               | 1.27 | .10 |     |     | .03    | 1.75 | .12 |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |     |      | .72 | .01 | .02 | .09 |     |      | 4.11   |      |      |
| Jersey City.....                           | Coast.....      |               | .64  | T.  |     |     | T.     | .51  | .35 | T.  |     |     |     |    |    | .19 |     |    |    |    |    |    |    |     |     |      |     | .55 |     | .11 | T.  |      | 2.35   |      |      |
| Lambertville.....                          | Delaware.....   |               | .15  |     |     |     | .12    |      |     |     | T.  |     |     |    |    | .02 | .06 |    |    |    |    |    |    | T.  | T.  | .05  | .12 |     | .03 | .01 |     |      | 0.66   |      |      |
| Little Falls   .....                       | Passaic.....    |               |      | .68 | .16 |     | .39    | 1.40 |     |     |     |     |     |    |    | .25 |     |    |    |    |    |    |    |     |     |      |     |     | .18 |     | .16 |      | 3.22   |      |      |
| Newark**.....                              | Coast.....      |               | .61  | .09 |     | .43 | .61    | .20  | .03 |     |     |     |     |    |    | .18 |     |    |    |    |    |    |    |     |     |      |     | .78 |     | .33 |     |      | 3.26   |      |      |
| New Brunswick.....                         | Raritan.....    |               | *    | .21 |     |     | T.     | .12  |     |     |     |     |     |    |    | .02 | .14 |    |    |    |    |    |    |     |     | .01  |     | .58 | .02 | T.  |     |      | 1.10   |      |      |
| New Milford.....                           | Hackensack..... |               | 1.10 | .07 |     | .12 | .33    | .12  |     |     |     |     |     |    |    | .23 |     |    |    |    |    |    |    |     |     |      |     | .36 |     | .17 |     |      | 2.50   |      |      |
| Paterson.....                              | Passaic.....    |               | .70  | .07 | .02 | T.  | .66    | .21  | T.  |     |     |     |     |    |    | .20 |     |    |    |    |    |    |    |     | .02 |      |     | T.  | .15 | .02 | .21 |      | 2.26   |      |      |
| Plainfield.....                            | Raritan.....    |               | .25  |     |     | .40 | .39    | .01  | .02 |     |     |     |     |    |    | .19 |     |    |    |    |    |    |    |     | T.  | T.   |     | .13 |     | .02 |     |      | 1.41   |      |      |
| Somerville.....                            | Raritan.....    |               | .50  | .06 |     | .35 | .86    |      |     |     |     |     |     |    |    | .18 | .02 |    |    |    |    |    |    |     |     |      |     |     | .16 |     | .14 |      | 2.27   |      |      |
| South Orange.....                          | Rahway.....     |               | .50  |     |     | *   | .53    | .62  |     |     |     |     |     |    |    | T.  |     |    |    |    |    |    |    |     |     |      |     | .55 |     | .07 |     |      | 2.27   |      |      |
| Woodcliff Lake.....                        | Hackensack..... |               | .81  | .15 |     | .39 | .36    | .08  |     |     |     |     |     |    |    | .28 |     |    |    |    |    |    |    |     |     | .07  |     | .35 |     | .30 |     |      | 2.79   |      |      |
| New York, N. Y***                          | Coast.....      |               | .72  | T.  |     | .21 | .19    | .24  | T.  |     |     |     |     |    |    | .15 |     |    |    |    |    |    |    |     |     |      |     | .29 |     | .05 | .01 |      | 1.86   |      |      |
| <i>The Southern Interior.</i>              |                 |               |      |     |     |     |        |      |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |     |      |     |     |     |     |     |      |        |      |      |
| Belle Plain.....                           | Tuckahoe.....   |               | .29  |     |     |     | .19    |      |     |     | .36 |     |     |    |    | .63 |     |    |    |    |    |    |    |     | .07 |      |     |     |     | .05 | .06 |      | 1.65   |      |      |
| Bridgeton.....                             | Coast.....      |               | .13  |     |     | T.  | .08    |      |     |     | .48 |     |     |    |    | .23 |     |    |    |    |    |    |    |     | .30 |      |     |     |     | .63 |     |      | 1.85   |      |      |
| Burlington.....                            | Delaware.....   |               |      | .63 |     |     | .53    |      |     |     | T.  |     |     |    |    | .10 |     |    |    |    |    |    |    |     |     | 1.05 |     | .46 |     |     |     |      | 2.77   |      |      |
| Camp Dix   .....                           | Delaware.....   |               | .24  |     |     | .02 | .11    |      |     |     | .20 |     |     |    |    | .50 |     |    |    |    |    |    |    |     |     |      | .34 |     | .60 | .50 |     |      | 2.91   |      |      |
| Hammonton.....                             | Mullica.....    |               |      | .13 |     |     | .22    |      |     |     |     | .11 |     |    |    |     |     |    |    |    |    |    |    |     |     |      |     | .68 |     | .11 | .45 |      | 1.70   |      |      |
| Hightstown.....                            | Raritan.....    |               | .21  |     |     |     | .22    |      |     |     | T.  |     |     |    |    | .23 |     |    |    |    |    |    |    |     |     |      |     | .02 |     | .05 | T.  |      | 0.73   |      |      |
| Imlaystown.....                            | Delaware.....   |               |      | .15 |     |     | .11    | .02  |     |     | T.  |     |     |    |    | .26 |     |    |    |    |    |    |    |     |     | T.   |     | .66 | .03 | .42 | .50 | .02  |        | 2.17 |      |
| Indian Mills.....                          | Mullica.....    |               | T.   | .21 |     |     | .03    |      |     |     | .18 |     |     |    |    | T.  | .20 |    |    |    |    |    |    |     |     | T.   | .33 |     |     |     | .23 |      | 1.18   |      |      |
| Lakewood.....                              | Metedeconk..... |               |      | .19 |     |     | .30    | .07  |     |     | T.  |     |     |    |    | T.  | .04 |    |    |    |    |    |    |     |     |      |     | .22 |     | .52 | T.  | .09  | 1.43   |      |      |
| Lumberton.....                             | Delaware.....   |               |      |     |     |     |        |      |     |     |     |     |     |    |    | .02 |     |    |    |    |    |    |    |     |     |      |     |     |     |     |     |      | 1.54   |      |      |
| Moorestown.....                            | Delaware.....   |               | .36  |     |     |     | .07    |      |     |     | .02 |     |     |    |    | .02 |     |    |    |    |    |    |    |     |     | 1.00 |     | .07 |     |     |     |      | 0.91   |      |      |
| Northfield.....                            | Coast.....      |               |      | .07 |     |     | .14    |      |     |     | .36 |     |     |    |    | .30 |     |    |    |    |    |    |    |     |     |      |     |     |     |     | .04 |      | 0.72   |      |      |
| Pleasantville.....                         | Coast.....      |               |      | .02 |     | T.  | .10    |      |     |     | .36 |     |     |    |    | .21 |     |    |    |    |    |    |    |     |     |      |     |     |     |     | .03 |      | 1.47   |      |      |
| Trenton***.....                            | Delaware.....   |               | .34  |     |     | T.  | .11    | T.   |     |     | T.  |     |     |    |    | .43 |     |    |    |    |    |    |    |     |     | T.   | .39 |     | .20 | T.  | T.  |      |        |      |      |
| Tuckerton.....                             | Coast.....      |               |      | .20 |     |     | .76    |      |     |     | .19 |     |     |    |    | .10 | .18 |    |    |    |    |    |    |     |     |      |     | .02 |     |     | T.  |      | 1.45   |      |      |
| Vineland.....                              | Maurice.....    |               |      | .04 |     | .02 | .06    |      |     |     | .37 |     |     |    |    | .20 |     |    |    |    |    |    |    |     |     |      |     |     |     |     | .08 | .64  | 1.98   |      |      |
| Philadelphia, Pa.....                      | Delaware.....   |               | .09  |     |     | T.  | .17    |      |     | T.  | .03 |     |     |    |    | .04 |     |    |    |    |    |    |    |     |     |      | .20 |     | .12 |     | T.  |      | 0.65   |      |      |
| <i>The Sea Coast.</i>                      |                 |               |      |     |     |     |        |      |     |     |     |     |     |    |    |     |     |    |    |    |    |    |    |     |     |      |     |     |     |     |     |      |        |      |      |
| Asbury Park.....                           | Coast.....      |               |      | *   | .17 |     | .17    | .07  | .01 |     | T.  |     |     |    |    | .37 |     |    |    |    |    |    |    |     |     | T.   |     | .04 |     | T.  |     | .04  | .01    | T.   | 0.88 |
| Atlantic City***                           | do.....         |               | .14  |     |     | T.  | .24    |      |     |     | .26 |     |     |    |    | .25 |     |    |    |    |    |    |    |     |     |      |     | .01 |     |     | .01 |      |        | 0.93 |      |
| Cape May City.....                         | do.....         |               |      | .44 |     | .04 | .17    |      |     |     | .19 | .01 | .17 |    |    | .62 |     |    |    |    |    |    |    |     |     |      | .04 |     |     | .26 |     | .01  |        | 1.69 |      |
| Long Branch**.....                         | do.....         |               | .16  |     |     |     | .02    | .02  |     |     | T.  |     |     |    |    | .28 | T.  |    |    |    |    |    |    |     |     |      |     | .02 | T.  |     |     | .04  | .01    | 0.81 |      |
| Sandy Hook***.....                         | do.....         |               | .12  |     |     |     | .02    |      |     |     |     |     |     |    |    | .13 |     |    |    |    |    |    |    |     |     |      |     |     | .02 | T.  |     | .54  | .14    | T.   | 0.95 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|---------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. |               |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |               |
| Atlantic City.....    | 29.90         | 30.22    | 1     | 29.44   | 26    | 16               | 50              | nw.        | 8     | 75                                         | 74                                         | 77            |
| Cape May City.....    | 29.95         | 30.26    | 1     | 29.49   | 26    | 8                | 34              | nw         | 9     | 78                                         | 78                                         | 77            |
| Long Branch.....      | 29.92         | 30.22    | 1     | 29.38   | 26    | .....            | 42              | w.         | 26    | 73                                         | 75                                         | 75            |
| Newark.....           | .....         | .....    | ..... | .....   | ..... | .....            | .....           | .....      | ..... | 68*                                        | 66†                                        | 74            |
| New York, N. Y.....   | 29.88         | 30.21    | 1     | 29.37   | 26    | 16               | 60              | sw.        | 26    | 68                                         | 62                                         | 76            |
| Philadelphia, Pa..... | 29.90         | 30.22    | 1     | 29.41   | 26    | 10               | 40              | n.         | 9     | 61                                         | 54                                         | 75            |
| Sandy Hook.....       | 29.88         | 30.21    | 18    | 29.35   | 26    | 12               | 46              | nw.        | 9     | 75                                         | 74                                         | 75            |
| Trenton.....          | 29.88         | 30.20    | 1     | 29.32   | 26    | 10               | 40              | nw.        | 9     | 65                                         | 58                                         | 81            |

\* 7 a. m. † 9 p. m.



## Daily Temperatures for June, 1923.

| Stations.                            | 1       | 2  | 3  | 4  | 5   | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21  | 22  | 23 | 24 | 25  | 26  | 27 | 28 | 29 | 30   | 31    | Mean. |      |
|--------------------------------------|---------|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|-----|-----|----|----|----|------|-------|-------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |     |     |    |    |    |      |       |       |      |
| Belvidere.....                       | Maximum | 80 | 91 | 88 | 89  | 89 | 89 | 80 | 74 | 67 | 76 | 72 | 73 | 85 | 77 | 77 | 86 | 89 | 91 | 96 | 96  | 89  | 92 | 94 | 94  | 92  | 81 | 74 | 74 | 76   | 83.8* |       |      |
|                                      | Minimum | 48 | 56 | 60 | 61  | 64 | 66 | 60 | 54 | 50 | 48 | 57 | 57 | 50 | 58 | 49 | 50 | 55 | 59 | 67 | 65  | 66  | 63 | 67 | 68  | 67  | 68 | 61 | 59 | 44   | 58.5* |       |      |
| Charlotteburg.....                   | Maximum | 81 | 87 | 84 | 89  | 88 | 88 | 81 | 69 | 65 | 71 | 71 | 78 | 71 | 83 | 83 | 75 | 84 | 86 | 89 | 94  | 91  | 85 | 87 | 92  | 93  | 91 | 78 | 74 | 70   | 74    | 81.7  |      |
|                                      | Minimum | 39 | 52 | 60 | 58  | 57 | 67 | 61 | 55 | 50 | 43 | 43 | 49 | 49 | 43 | 54 | 45 | 44 | 57 | 59 | 67  | 67  | 65 | 64 | 62  | 71  | 59 | 61 | 58 | 58   | 43    | 55.0  |      |
| Dover.....                           | Maximum | 82 | 91 | 87 | 85  | 90 | 89 | 82 | 68 | 67 | 76 | 71 | 78 | 68 | 86 | 78 | 86 | 89 | 91 | 97 | 95  | 84  | 87 | 95 | 98  | 93  | 83 | 74 | 75 | 80   | 83.4  |       |      |
|                                      | Minimum | 49 | 58 | 56 | 61  | 65 | 69 | 56 | 57 | 53 | 50 | 49 | 53 | 53 | 49 | 59 | 47 | 50 | 54 | 61 | 68  | 71  | 62 | 59 | 66  | 71  | 66 | 63 | 61 | 54   | 57.9  |       |      |
| Layton.....                          | Maximum | 82 | 88 | 85 | 90  | 91 | 88 | 79 | 73 | 68 | 72 | 75 | 78 | 73 | 82 | 77 | 77 | 85 | 89 | 91 | 96  | 94  | 90 | 88 | 95  | 96  | 95 | 80 | 74 | 71   | 72    | 83.1  |      |
|                                      | Minimum | 44 | 51 | 52 | 62  | 60 | 67 | 65 | 58 | 50 | 42 | 48 | 53 | 42 | 57 | 41 | 45 | 50 | 50 | 61 | 61  | 60  | 60 | 66 | 64  | 60  | 61 | 59 | 58 | 38   | 54.3* |       |      |
| Newton.....                          | Maximum | 82 | 91 | 87 | 85  | 90 | 89 | 82 | 68 | 67 | 76 | 71 | 78 | 68 | 86 | 78 | 86 | 89 | 91 | 97 | 95  | 84  | 87 | 95 | 98  | 93  | 83 | 74 | 75 | 80   | 83.4  |       |      |
|                                      | Minimum | 48 | 58 | 60 | 66  | 64 | 65 | 64 | 59 | 53 | 50 | 49 | 52 | 53 | 50 | 55 | 46 | 53 | 57 | 63 | 68  | 67  | 66 | 60 | 68  | 71  | 66 | 58 | 60 | 58   | 45    | 58.1  |      |
| Phillipsburg.....                    | Maximum | 83 | 94 | 93 | 93  | 94 | 93 | 88 | 77 | 71 | 79 | 77 | 81 | 72 | 87 | 80 | 80 | 87 | 92 | 94 | 101 | 98  | 92 | 94 | 97  | 98  | 84 | 78 | 77 | 79   | 86.7  |       |      |
|                                      | Minimum | 48 | 56 | 58 | 61  | 64 | 68 | 62 | 60 | 55 | 50 | 50 | 53 | 54 | 48 | 60 | 50 | 51 | 50 | 57 | 65  | 66  | 62 | 63 | 70  | 70  | 69 | 63 | 63 | 55   | 48    | 58.3  |      |
| Sussex.....                          | Maximum | 82 | 91 | 87 | 85  | 90 | 89 | 82 | 68 | 67 | 76 | 71 | 78 | 68 | 86 | 78 | 86 | 89 | 91 | 97 | 95  | 84  | 87 | 95 | 98  | 93  | 83 | 74 | 75 | 80   | 83.4  |       |      |
| Minimum                              | 48      | 58 | 60 | 66 | 64  | 65 | 59 | 53 | 50 | 49 | 52 | 53 | 50 | 55 | 46 | 53 | 57 | 63 | 68 | 67 | 66  | 60  | 68 | 71 | 66  | 58  | 60 | 58 | 45 | 58.1 |       |       |      |
| The Red Sandstone Plain.             |         |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |     |     |    |    |    |      |       |       |      |
| Bergen Point.....                    | Maximum | 78 | 84 | 86 | 91  | 93 | 91 | 78 | 69 | 72 | 76 | 74 | 76 | 68 | 86 | 76 | 78 | 84 | 79 | 92 | 99  | 96  | 85 | 85 | 92  | 96  | 96 | 82 | 79 | 75   | 80    | 83.2  |      |
|                                      | Minimum | 56 | 64 | 62 | 61  | 69 | 70 | 59 | 59 | 59 | 56 | 56 | 56 | 58 | 53 | 59 | 58 | 59 | 67 | 62 | 68  | 78  | 65 | 62 | 62  | 74  | 70 | 59 | 67 | 63   | 56    | 62.2  |      |
| Boonton§§.....                       | Maximum | 79 | 90 | 85 | 86  | 87 | 88 | 83 | 71 | 70 | 75 | 72 | 78 | 71 | 84 | 77 | 78 | 86 | 87 | 88 | 96  | 94  | 84 | 89 | 94  | 95  | 91 | 82 | 78 | 74   | 79    | 83.0  |      |
|                                      | Minimum | 43 | 52 | 53 | 58  | 58 | 69 | 63 | 55 | 54 | 59 | 46 | 49 | 51 | 43 | 55 | 44 | 46 | 50 | 53 | 64  | 69  | 67 | 56 | 64  | 71  | 62 | 65 | 57 | 60   | 45    | 56.0  |      |
| Elizabeth.....                       | Maximum | 84 | 94 | 92 | 92  | 94 | 93 | 86 | 71 | 70 | 80 | 75 | 80 | 72 | 88 | 80 | 80 | 87 | 88 | 95 | 101 | 100 | 89 | 91 | 97  | 101 | 99 | 90 | 83 | 78   | 83    | 87.1  |      |
|                                      | Minimum | 48 | 61 | 59 | 61  | 65 | 71 | 65 | 58 | 56 | 54 | 55 | 52 | 57 | 53 | 59 | 56 | 52 | 58 | 59 | 67  | 71  | 69 | 60 | 65  | 74  | 68 | 68 | 63 | 63   | 47    | 60.5  |      |
| Flemington.....                      | Maximum | 84 | 92 | 91 | 90  | 91 | 92 | 87 | 75 | 69 | 77 | 74 | 78 | 72 | 90 | 82 | 78 | 88 | 94 | 93 | 101 | 97  | 89 | 92 | 96  | 98  | 96 | 92 | 81 | 73   | 83    | 86.6  |      |
|                                      | Minimum | 47 | 60 | 60 | 60  | 66 | 69 | 67 | 59 | 55 | 51 | 51 | 52 | 57 | 47 | 60 | 51 | 52 | 54 | 56 | 65  | 70  | 70 | 60 | 66  | 72  | 72 | 62 | 62 | 62   | 48    | 59.6  |      |
| Highwood.....                        | Maximum | 84 | 84 | 82 | 89  | 91 | 89 | 77 | 65 | 65 | 75 | 72 | 74 | 68 | 84 | 75 | 75 | 82 | 80 | 90 | 96  | 95  | 83 | 81 | 92  | 97  | 94 | 82 | 75 | 70   | 75    | 81.4  |      |
|                                      | Minimum | 50 | 58 | 56 | 61  | 63 | 71 | 62 | 56 | 55 | 50 | 48 | 49 | 54 | 48 | 58 | 49 | 50 | 54 | 59 | 65  | 78  | 67 | 59 | 66  | 67  | 64 | 65 | 60 | 62   | 47    | 58.4  |      |
| Jersey City.....                     | Maximum | 82 | 94 | 90 | 89  | 92 | 93 | 85 | 72 | 71 | 78 | 74 | 78 | 69 | 87 | 79 | 78 | 84 | 85 | 92 | 101 | 100 | 83 | 93 | 97  | 100 | 96 | 85 | 80 | 77   | 80    | 85.5  |      |
|                                      | Minimum | 51 | 65 | 64 | 62  | 70 | 69 | 63 | 57 | 56 | 56 | 57 | 59 | 58 | 56 | 58 | 58 | 64 | 66 | 65 | 71  | 78  | 64 | 63 | 65  | 76  | 68 | 68 | 63 | 62   | 56    | 62.9  |      |
| Lambertville.....                    | Maximum | 81 | 92 | 89 | 90  | 91 | 89 | 89 | 75 | 68 | 77 | 74 | 80 | 66 | 86 | 80 | 78 | 87 | 88 | 93 | 100 | 97  | 88 | 94 | 97  | 97  | 95 | 83 | 84 | 74   | 79    | 85.5  |      |
|                                      | Minimum | 48 | 63 | 64 | 60  | 68 | 69 | 69 | 60 | 56 | 52 | 54 | 55 | 54 | 53 | 60 | 53 | 55 | 57 | 60 | 67  | 72  | 69 | 60 | 69  | 69  | 67 | 63 | 62 | 50   | 60.9  |       |      |
| Little Falls§§.....                  | Maximum | 86 | 92 | 92 | 93  | 92 | 94 | 81 | 74 | 70 | 77 | 78 | 80 | 75 | 87 | 82 | 80 | 85 | 85 | 93 | 99  | 98  | 86 | 90 | 100 | 99  | 84 | 85 | 80 | 81   | 80    | 86.7  |      |
|                                      | Minimum | 48 | 59 | 56 | 68  | 63 | 71 | 66 | 56 | 55 | 54 | 47 | 51 | 53 | 47 | 57 | 49 | 59 | 54 | 57 | 67  | 69  | 66 | 59 | 65  | 74  | 64 | 67 | 61 | 61   | 47    | 59.0  |      |
| Newark.....                          | Maximum | 82 | 94 | 91 | 91  | 93 | 91 | 83 | 67 | 67 | 78 | 73 | 78 | 65 | 87 | 79 | 78 | 88 | 85 | 94 | 100 | 97  | 79 | 89 | 99  | 99  | 95 | 84 | 80 | 73   | 80    | 84.6  |      |
|                                      | Minimum | 51 | 64 | 65 | 64  | 69 | 70 | 60 | 56 | 57 | 57 | 59 | 57 | 56 | 55 | 58 | 56 | 61 | 63 | 66 | 72  | 79  | 63 | 62 | 69  | 79  | 68 | 69 | 62 | 60   | 55    | 62.7  |      |
| New Brunswick.....                   | Maximum | 81 | 93 | 90 | 89  | 90 | 90 | 87 | 74 | 68 | 76 | 77 | 72 | 88 | 85 | 77 | 85 | 88 | 92 | 99 | 97  | 93  | 91 | 97 | 97  | 95  | 91 | 80 | 74 | 78   | 80    | 85.7  |      |
|                                      | Minimum | 47 | 59 | 60 | 59  | 69 | 70 | 64 | 58 | 55 | 59 | 51 | 55 | 54 | 49 | 59 | 52 | 52 | 54 | 58 | 65  | 71  | 70 | 59 | 64  | 70  | 72 | 68 | 63 | 62   | 51    | 60.0  |      |
| Paterson.....                        | Maximum | 85 | 92 | 92 | 92  | 94 | 94 | 84 | 67 | 69 | 79 | 75 | 80 | 72 | 88 | 81 | 79 | 88 | 87 | 95 | 100 | 99  | 92 | 87 | 96  | 101 | 99 | 85 | 81 | 77   | 80    | 86.3  |      |
|                                      | Minimum | 50 | 61 | 62 | 63  | 66 | 73 | 65 | 57 | 56 | 55 | 53 | 54 | 56 | 51 | 59 | 54 | 55 | 58 | 62 | 72  | 75  | 71 | 62 | 67  | 75  | 72 | 67 | 65 | 63   | 51    | 61.7  |      |
| Plainfield.....                      | Maximum | 83 | 94 | 91 | 90  | 93 | 92 | 85 | 72 | 71 | 79 | 73 | 78 | 69 | 88 | 80 | 79 | 84 | 88 | 93 | 100 | 99  | 90 | 91 | 98  | 100 | 96 | 85 | 81 | 78   | 81    | 86.0  |      |
|                                      | Minimum | 47 | 58 | 56 | 60  | 63 | 69 | 65 | 57 | 55 | 51 | 47 | 49 | 56 | 45 | 58 | 56 | 60 | 58 | 66 | 66  | 68  | 64 | 74 | 67  | 67  | 60 | 62 | 47 | 47   | 58.9* |       |      |
| Somerville.....                      | Maximum | 84 | 96 | 92 | 90  | 92 | 93 | 88 | 74 | 70 | 79 | 74 | 80 | 72 | 88 | 80 | 87 | 94 | 80 | 87 | 94  | 100 | 99 | 94 | 93  | 98  | 99 | 97 | 90 | 82   | 77    | 82    | 87.3 |
|                                      | Minimum | 42 | 53 | 57 | 59  | 62 | 68 | 65 | 59 | 56 | 50 | 49 | 51 | 56 | 46 | 60 | 49 | 48 | 48 | 54 | 64  | 67  | 70 | 59 | 64  | 69  | 66 | 66 | 60 | 63   | 45    | 57.5  |      |
| South Orange.....                    | Maximum | 81 | 90 | 89 | 90  | 90 | 83 | 70 | 69 | 75 | 73 | 76 | 69 | 84 | 77 | 80 | 86 | 84 | 91 | 96 | 94  | 81  | 85 | 94 | 96  | 93  | 82 | 79 | 75 | 77   | 83.1* |       |      |
|                                      | Minimum | 48 | 61 | 62 | 62  | 67 | 71 | 65 | 58 | 56 | 55 | 52 | 57 | 52 | 56 | 55 | 52 | 60 | 57 | 72 | 76  | 61  | 62 | 66 | 74  | 67  | 67 | 63 | 62 | 50   | 60.6* |       |      |
| New York, N. Y.....                  | Maximum | 78 | 88 | 84 | 86  | 88 | 88 | 78 | 69 | 66 | 74 | 72 | 76 | 66 | 83 | 75 | 75 | 83 | 70 | 88 | 95  | 93  | 82 | 86 | 91  | 95  | 91 | 81 | 75 | 72   | 75    | 81.1  |      |
|                                      | Minimum | 51 | 65 | 64 | 63  | 70 | 69 | 59 | 56 | 56 | 56 | 59 | 59 | 58 | 56 | 58 | 64 | 67 | 66 | 71 | 79  | 64  | 63 | 66 | 76  | 68  | 68 | 64 | 62 | 56   | 63.0  |       |      |
| The Southern Interior.               |         |    |    |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |     |     |    |    |    |      |       |       |      |
| Belle Plain.....                     | Maximum | 80 | 95 | 97 | 101 | 94 | 94 | 89 | 86 | 90 | 87 | 81 | 86 | 86 | 92 | 94 | 94 | 92 |    |    |     |     |    |    |     |     |    |    |    |      |       |       |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVIII.

JULY, 1923.

No. 7.

### GENERAL SUMMARY.

The most noticeable feature of July weather in 1923 in New Jersey was the small number of days on which the heat was even slightly above normal. And upon only one or two days was the mean temperature in the 80's. The hottest day was the 21st when the maxima rose in a few localities to slightly above 100°, but on the first day of the month temperatures were in the 40's or 50's throughout the State.

Rainfall was also deficient; although there was no diminution in frequency, the volume was slightly subnormal. This deficiency, added to that of previous months, did not afford much relief from accumulated drought conditions until the last week of the month, when there were several consecutive rainy days which provided some much needed soil moisture. The drought, which has persisted since the early growing season, was relieved somewhat, but only very gradually and almost imperceptibly. The general subsoil water level continued very low, and did not rise appreciably from the scattered rains. As a result, wells and springs were very low, or failed entirely, and many streams became so low as to reveal an impending shortage in urban water supply, and many farmers were obliged to haul water. The greater portion of the rain was attendant upon thundershowers, and there were several instances of severe hail. In one occurrence of hail near Somerville, the stones were about an inch or slightly more in diameter, and caused moderate destruction.

As a rule the weather was more than ordinarily pleasant and favorable for out door activities, and farm work was well in hand. Insect enemies were less injurious than often happens, and while the drought only diminished crop volume, it contributed very appreciably for the harvest of hay and grain under most favorable conditions.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 35 stations, was 71.9°, which was 1.9° below normal. The highest temperature was 102° at Burlington on the 21st, and the lowest, 40° at Charlotteburg on the 1st. The highest monthly mean temperature was 74.8° at Bridgeton, and the lowest, 68.0° at Charlotteburg. The greatest daily range of temperature was 48° at New Brunswick on the 20th. The temperature departure for the year 1923 to date, by sections, is: The Highlands, -0.7°; Red Sandstone Plain, -0.7°; Southern Interior, 0.0°; Sea Coast, -0.2°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 42 stations was 3.88 inches, which was 0.68 inch below normal. The greatest monthly rainfall was 6.28 inches at Newark, and the least, 0.93 inch at Woodcliffe Lake. The greatest amount of rain in any 24 consecutive hours was 2.62 inches at Belle Plain on the 28th and 29th. The mean of the number of days on which 0.01 inch or more of rain fell was 11, or 1 more than the normal. The precipitation accumulated departure from normal for the year 1923 to date, by sections, is: The Highlands, -5.02 inches; Red Sandstone Plain, -4.92 inches; Southern Interior, -3.05 inches; Sea Coast, -1.96 inches.

### WIND.

The prevailing wind direction was from the south, with an approximate velocity of 10 miles per hour, which was about normal. The highest velocity, sustained for 5 consecutive minutes, was 42 miles per hour from the northeast on the 6th at Long Branch.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was 3 more than normal; partly cloudy, 8, or 4 less than normal; cloudy, 8, or 1 more than normal. The approximate percentage of possible sunshine was 64, which was 1 above normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 0.6 foot, and the highest stage, was 3.2 feet on the 28th. At Trenton the mean stage was 0.2 foot, which was 1.1 feet below normal. The highest stage, 1.8 feet, occurred on the 30th.

The mean atmospheric pressure, reduced to sea level, was 30.01 inches, which was 0.03 inch above the normal. The highest reading was 30.43 inches on the 2d, at Cape May City, and the lowest 29.63 on the 25th, at Atlantic City and Sandy Hook.

Thunderstorms occurred in some portions of the State on the 3d, 4th, 5th, 6th, 8th, 10th, 11th, 12th, 14th, 15th, 16th, 17th, 21st, 22d, 23d, 25th, 28th and 29th.

Hail occurred as follows: 4th, little damage at Trenton, Burlington, and Somerville; moderate damage at Bound Brook; 15th, little damage at Lambertville; 22d, little damage at Jamesburg, Moorestown, Newark, and Little Falls; moderate damage at Bound Brook.

### COMPARATIVE DATA FOR JULY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 75.2         | 100      | 44      | 3.50           | 7.28      | 1.29   | .....        | .....          | .....   | .....                  |
| 1886..... | 73.0         | 98       | 48      | 4.91           | 7.95      | 2.98   | .....        | .....          | .....   | .....                  |
| 1887..... | 77.1         | 102      | 54      | 7.67           | 15.29     | 1.95   | .....        | .....          | .....   | 11                     |
| 1888..... | 71.1         | 95       | 45      | 3.50           | 7.03      | 1.25   | .....        | .....          | .....   | 9                      |
| 1889..... | 73.4         | 95       | 48      | 10.19          | 18.58     | 4.66   | .....        | .....          | .....   | 13                     |
| 1890..... | 72.5         | 101      | 39      | 5.62           | 7.55      | 3.60   | 12           | 11             | 8       | 9                      |
| 1891..... | 70.1         | 95       | 43      | 5.30           | 9.41      | 3.03   | 10           | 11             | 10      | 12                     |
| 1892..... | 74.3         | 105      | 44      | 4.03           | 7.96      | 2.38   | 12           | 14             | 5       | 8                      |
| 1893..... | 73.9         | 102      | 40      | 2.72           | 4.63      | 1.26   | 14           | 13             | 4       | 8                      |
| 1894..... | 75.7         | 106      | 44      | 1.66           | 5.00      | 0.15   | 14           | 12             | 5       | 6                      |
| 1895..... | 70.9         | 99       | 41      | 4.26           | 7.73      | 1.53   | 12           | 12             | 7       | 10                     |
| 1896..... | 75.0         | 98       | 47      | 5.50           | 13.29     | 2.45   | 13           | 10             | 8       | 13                     |
| 1897..... | 74.1         | 102      | 50      | 11.42          | 20.80     | 6.11   | 10           | 11             | 10      | 15                     |
| 1898..... | 75.3         | 107      | 38      | 4.96           | 11.72     | 2.23   | 11           | 13             | 7       | 10                     |
| 1899..... | 74.7         | 98       | 38      | 5.75           | 9.02      | 3.34   | 13           | 11             | 7       | 11                     |
| 1900..... | 75.9         | 104      | 42      | 4.74           | 7.21      | 1.11   | 15           | 12             | 4       | 11                     |
| 1901..... | 77.3         | 107      | 45      | 5.87           | 10.92     | 1.89   | 9            | 13             | 9       | 14                     |
| 1902..... | 73.0         | 100      | 43      | 4.78           | 9.92      | 1.83   | 10           | 12             | 9       | 13                     |
| 1903..... | 73.3         | 100      | 38      | 5.51           | 10.14     | 3.08   | 16           | 10             | 5       | 12                     |
| 1904..... | 72.3         | 98       | 42      | 4.87           | 8.06      | 2.41   | 13           | 10             | 8       | 13                     |
| 1905..... | 74.4         | 102      | 42      | 4.06           | 8.19      | 1.67   | 12           | 13             | 6       | 12                     |
| 1906..... | 72.8         | 94       | 46      | 5.58           | 13.25     | 3.44   | 11           | 14             | 6       | 12                     |
| 1907..... | 73.6         | 96       | 40      | 2.62           | 6.42      | 0.95   | 8            | 12             | 11      | 8                      |
| 1908..... | 75.6         | 106      | 42      | 4.70           | 8.12      | 1.97   | 12           | 13             | 6       | 9                      |
| 1909..... | 71.6         | 99       | 36      | 2.12           | 4.03      | 1.03   | 14           | 14             | 3       | 5                      |
| 1910..... | 75.3         | 99       | 42      | 1.36           | 5.33      | 0.22   | 12           | 12             | 7       | 5                      |
| 1911..... | 76.0         | 104      | 42      | 3.64           | 6.46      | 2.06   | 12           | 12             | 7       | 8                      |
| 1912..... | 73.7         | 100      | 36      | 3.86           | 9.91      | 1.01   | 14           | 10             | 7       | 9                      |
| 1913..... | 74.4         | 100      | 41      | 2.52           | 4.72      | 1.50   | 20           | 9              | 2       | 8                      |
| 1914..... | 71.5         | 97       | 40      | 6.05           | 8.57      | 1.94   | 9            | 11             | 11      | 15                     |
| 1915..... | 72.8         | 98       | 44      | 5.31           | 11.06     | 2.23   | 10           | 13             | 8       | 14                     |
| 1916..... | 74.4         | 97       | 45      | 5.40           | 9.01      | 3.15   | 11           | 9              | 11      | 12                     |
| 1917..... | 74.2         | 104      | 46      | 4.83           | 7.93      | 2.38   | 10           | 11             | 10      | 12                     |
| 1918..... | 72.2         | 104      | 39      | 3.93           | 13.60     | 1.20   | 17           | 9              | 5       | 8                      |
| 1919..... | 73.5         | 103      | 43      | 8.39           | 14.14     | 4.45   | 14           | 7              | 10      | 14                     |
| 1920..... | 71.7         | 96       | 42      | 5.76           | 16.25     | 1.20   | 17           | 10             | 4       | 11                     |
| 1921..... | 76.5         | 99       | 43      | 3.62           | 7.36      | 1.66   | 14           | 9              | 8       | 10                     |
| 1922..... | 73.0         | 98       | 44      | 5.79           | 9.26      | 2.29   | 13           | 9              | 8       | 13                     |
| 1923..... | 71.9         | 102      | 40      | 3.88           | 6.28      | 0.93   | 11           | 15             | 8       | 8                      |



## Climatological Data for July, 1923.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers. |                           |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|------------|---------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |            | Cloudy.                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belvidere.....                              | Warren.....     | 289              | 32                       | 70.6 <sup>b</sup>             | -2.6                       | 93       | 20†   | 49      | 1     | 38                        | 4.06   | -0.92                      | 1.63                  | 0                          | 8                              | 23     | 3           | 5                             | .....      | Samuel J. Hixson.         |
| Charlotteburg.....                          | Passaic.....    | 719              | 31                       | 68.0                          | -2.0                       | 94       | 21    | 40      | 1     | 46                        | 2.35   | -2.48                      | 0.82                  | 0                          | 10                             | 19     | 3           | 9                             | w.         | Newark Water Dept.        |
| Culvers Lake††.....                         | Sussex.....     | 848              | 22                       | .....                         | .....                      | .....    | ..... | 50      | 1     | .....                     | 2.93   | -1.64                      | 0.92                  | 0                          | 11                             | 18     | 7           | 6                             | s.         | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600              | 39                       | 70.2                          | -1.2                       | 96       | 20    | 46      | 1     | 41                        | 2.17   | -3.10                      | 0.88                  | 0                          | 12                             | 3      | 17          | 11                            | .....      | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480              | 22                       | 69.4                          | -1.5                       | 95       | 20    | 43      | 1     | 44                        | 4.09   | -0.17                      | 1.74                  | 0                          | 13                             | 17     | 4           | 10                            | w.         | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769              | 40                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Irving G. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363              | 40                       | 72.5                          | -1.6                       | 97       | 20    | 50      | 1     | 42                        | 2.60   | -2.25                      | 1.24                  | 0                          | 7                              | 12     | 17          | 2                             | .....      | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442              | 29                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | .....                     |
| Means and extremes.....                     |                 |                  |                          | 70.1                          | -1.8                       | 97       | 20    | 40      | 1     | 46                        | 3.03   | -1.76                      | 1.74                  | 0                          | 10                             | 15     | 9           | 7                             | w.         |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Bergen Point††.....                         | Hudson.....     | 37               | 26                       | 71.6                          | -2.4                       | 97       | 21    | 57      | 1†    | 30                        | 3.29   | -1.32                      | 0.63                  | 0                          | 12                             | 10     | 19          | 2                             | sw.        | William H. Mitchell.      |
| Boonton.....                                | Morris.....     | 400              | 33                       | 69.1                          | -3.4                       | 95       | 20†   | 43      | 1     | 45                        | 1.91   | -2.99                      | 0.82                  | 0                          | 10                             | 16     | 1           | 14                            | ne.        | John Kline.               |
| Chatham.....                                | Morris.....     | 185              | 19                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.89   | -0.55                      | 1.36                  | 0                          | 7                              | 19     | 8           | 4                             | .....      | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45               | 44                       | 73.4 <sup>a</sup>             | -1.9                       | 99       | 21    | 51      | 1     | 40                        | 4.69   | -0.47                      | 1.79                  | 0                          | 10                             | 16     | 9           | 6                             | se.        | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140              | 37                       | 73.1                          | -1.5                       | 99       | 20†   | 49      | 1     | 44                        | 4.79   | -0.43                      | 1.15                  | 0                          | 12                             | 20     | 3           | 8                             | se.        | Hiram E. Deats.           |
| Highwood††.....                             | Bergen.....     | 90               | 35                       | 69.8                          | -2.5                       | 98       | 20    | 50      | 1     | 45                        | 1.86   | -3.09                      | 0.68                  | 0                          | 13                             | 11     | 9           | 11                            | sw.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10               | 25                       | 73.4                          | -2.7                       | 98       | 20†   | 57      | 3     | 33                        | 4.55   | +0.11                      | 1.29                  | 0                          | 11                             | 15     | 10          | 6                             | s.         | S. K. Pearson, Jr.        |
| Lambertville.....                           | Hunterdon.....  | 370              | 36                       | 72.8                          | -1.5                       | 95       | 20†   | 52      | 1     | 34                        | 4.78   | -0.04                      | 0.82                  | 0                          | 14                             | 16     | 7           | 8                             | nw.        | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180              | 20                       | 72.1                          | -1.7                       | 99       | 20    | 49      | 1     | 44                        | 3.12   | -1.27                      | 1.47                  | 0                          | 10                             | 14     | 8           | 9                             | nw.        | Montclair Water Co.       |
| Newark.....                                 | Essex.....      | 159              | 81                       | 73.0                          | -1.6                       | 99       | 20    | 57      | 3     | 35                        | 6.28   | +1.47                      | 1.48                  | 0                          | 13                             | 12     | 12          | 7                             | sw.        | Prof. William Wiener.     |
| New Brunswick.....                          | Middlesex.....  | 110              | 70                       | 71.4                          | -2.6                       | 97       | 21    | 46      | 9     | 48                        | 3.93   | -1.11                      | 0.81                  | 0                          | 13                             | 16     | 8           | 7                             | s.         | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 3                | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.13   | .....                      | 0.32                  | 0                          | 11                             | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| Paterson.....                               | Passaic.....    | 80               | 52                       | 73.9                          | -0.5                       | 100      | 20    | 56      | 1†    | 39                        | 2.08   | -2.94                      | 0.89                  | 0                          | 12                             | 3      | 3           | 25                            | .....      | Marion T. Probert.        |
| Plainfield.....                             | Union.....      | 120              | 35                       | 70.7                          | -3.3                       | 97       | 21    | 47      | 1     | 41                        | 5.42   | -0.41                      | 1.33                  | 0                          | 12                             | 15     | 9           | 7                             | s.         | E. D. Pearson.            |
| Somerville.....                             | Somerset.....   | 70               | 40                       | 72.4                          | -1.7                       | 97       | 21    | 48      | 1     | 41                        | 5.81   | +0.70                      | 2.25                  | 0                          | 12                             | 22     | 0           | 9                             | nw.        | H. B. TenEyck.            |
| South Orange.....                           | Essex.....      | 200              | 53                       | 71.2                          | -2.0                       | 94       | 20    | 56      | 27    | 32                        | 3.84   | -1.17                      | 0.85                  | 0                          | 12                             | 16     | 10          | 5                             | w.         | Wm. H. Meeder.            |
| Woodcliff Lake††.....                       | Bergen.....     | 3                | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 0.93   | .....                      | 0.32                  | 0                          | 9                              | .....  | .....       | .....                         | .....      | Hackensack Water Co.      |
| New York, N. Y.....                         |                 | 365              | 53                       | 72.3                          | -1.5                       | 94       | 20    | 57      | 3     | 29                        | 4.68   | +0.14                      | 1.43                  | 0                          | 12                             | 6      | 14          | 11                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 72.0                          | -2.1                       | 100      | 20    | 43      | 1     | 48                        | 3.66   | -0.90                      | 2.25                  | 0                          | 11                             | 15     | 8           | 8                             | sw.        |                           |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Belle Plain.....                            | Cape May.....   | 30               | 29                       | 70.2                          | -3.6                       | 97       | 21    | 44      | 1†    | 47                        | 6.06   | +1.95                      | 2.62                  | 0                          | 12                             | 18     | 7           | 6                             | sw.        | Thomas J. Durell.         |
| Bridgeton.....                              | Cumberland..... | 30               | 42                       | 74.8                          | -1.9                       | 100      | 21    | 55      | 1     | 39                        | 2.82   | -1.67                      | 1.20                  | 0                          | 7                              | 18     | 7           | 6                             | e.         | Henry A. Jorden.          |
| Burlington.....                             | Burlington..... | 12               | 37                       | 74.7                          | -0.3                       | 102      | 21    | 51      | 27    | 41                        | 4.35   | -0.39                      | 1.66                  | 0                          | 12                             | 23     | 2           | 6                             | sw.        | D. S. B. McCoy.           |
| Camp Dix.....                               | Burlington..... | 127              | 5                        | 72.0                          | .....                      | 95       | 21    | 50      | 9     | 39                        | 4.05   | .....                      | 0.95                  | 0                          | 12                             | 23     | 6           | 2                             | s.         | U. S. Army.               |
| Hammonton.....                              | Atlantic.....   | 103              | 22                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 3.94   | -0.77                      | 1.74                  | 0                          | 7                              | 22     | 6           | 3                             | w.         | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120              | 31                       | 71.0                          | -3.4                       | 98       | 21    | 46      | 1     | 39                        | 3.30   | -1.69                      | 0.53                  | 0                          | 15                             | 20     | 5           | 6                             | se.        | E. H. Savige, Jr.         |
| Imlaystown.....                             | Monmouth.....   | 115              | 35                       | 70.0 <sup>a</sup>             | -4.7                       | 100      | 21    | 47      | 1     | 45                        | 4.55   | -0.21                      | 1.17                  | 0                          | 14                             | 19     | 6           | 6                             | sw.        | Wm. R. Hendrickson.       |
| Indian Mills††.....                         | Burlington..... | 76               | 34                       | 72.4                          | -2.3                       | 100      | 21    | 49      | 1     | 40                        | 5.40   | +0.74                      | 1.73                  | 0                          | 10                             | 8      | 14          | 9                             | .....      | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54               | 19                       | 71.5                          | -1.0                       | 98       | 21    | 48      | 1     | 44                        | 3.96   | -0.89                      | 0.84                  | 0                          | 12                             | 14     | 9           | 8                             | sw.        | R. W. Holman.             |
| Lumberton.....                              | Burlington..... | 20               | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Ralph B. Sterner.         |
| Moorestown.....                             | Burlington..... | 75               | 60                       | 73.4                          | -1.3                       | 100      | 21    | 52      | 1     | 38                        | 4.24   | -0.44                      | 1.25                  | 0                          | 10                             | 20     | 4           | 7                             | w.         | John B. Warrick.          |
| Northfield††.....                           | Atlantic.....   | 25               | 16                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 5.84   | +2.24                      | 2.12                  | 0                          | 12                             | .....  | .....       | .....                         | .....      | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26               | 25                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | .....      | Lincoln Van Gilder.       |
| Trenton.....                                | Mercer.....     | 190              | 51                       | 73.0                          | -1.5                       | 96       | 21    | 56      | 1     | 32                        | 3.18   | -1.59                      | 0.89                  | 0                          | 12                             | 9      | 10          | 12                            | s.         | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23               | 30                       | 72.2                          | -1.9                       | 100      | 21    | 45      | 1     | 44                        | 4.91   | +1.03                      | 1.55                  | 0                          | 8                              | 16     | 10          | 5                             | se.        | Frank R. Austin.          |
| Vineland.....                               | Cumberland..... | 109              | 54                       | 74.6                          | -1.8                       | 101      | 21    | 54      | 9     | 40                        | 2.51   | -2.06                      | 0.76                  | 0                          | 12                             | 12     | 15          | 4                             | se.        | H. C. Himes.              |
| Philadelphia, Pa.....                       |                 | 117              | 53                       | 75.2                          | -1.0                       | 99       | 21    | 62      | 3     | 26                        | 3.51   | -0.82                      | 1.35                  | 0                          | 12                             | 9      | 11          | 11                            | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 72.5                          | -2.2                       | 102      | 21    | 44      | 1     | 47                        | 4.22   | -0.88                      | 2.62                  | 0                          | 11                             | 17     | 8           | 6                             | sw.        |                           |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |            |                           |
| Asbury Park.....                            | Monmouth.....   | 22               | 34                       | .....                         | .....                      | .....    | ..... | 56      | 1     | .....                     | 5.59   | +1.05                      | 1.82                  | 0                          | 13                             | 13     | 8           | 10                            | ne.        | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16               | 49                       | 72.2                          | +0.1                       | 98       | 21    | 61      | 9     | 32                        | 5.36   | +1.58                      | 2.35                  | 0                          | 13                             | 9      | 13          | 9                             | s.         | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17               | 39                       | 73.7                          | +0.3                       | 98       | 21    | 59      | 1     | 29                        | 4.77   | +0.99                      | 1.80                  | 0                          | 11                             | 11     | 5           | 15                            | se.        | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25               | 16                       | 70.0                          | -2.1                       | 96       | 21    | 55      | 1     | 33                        | 5.19   | +0.27                      | 1.01                  | 0                          | 13                             | 11     | 12          | 8                             | s.         | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22               | 25                       | 71.9                          | -1.8                       | 94       | 21    | 58      | 3     | 25                        | 2.29   | -2.50                      | 0.88                  | 0                          | 12                             | 8      | 14          | 9                             | s.         | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                  |                          | 72.0                          | -0.9                       | 98       | 21    | 55      | 1     | 33                        | 4.64   | +0.28                      | 2.35                  | 0                          | 12                             | 11     | 10          | 10                            | s.         |                           |
| For the State.....                          |                 |                  |                          | 71.9                          | -1.9                       | 102      | 21    | 40      | 1     | 48                        | 3.88   | -0.68                      | 2.62                  | 0                          | 11                             | 15     | 8           | 8                             | s.         |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, \*, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



## Daily Precipitation for July, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      | Total. |
|--------------------------------------------|-----------------|---------------|------|------|------|------|-----|-----|-----|---|-----|------|-----|-----|-----|------|-----|-----|----|----|----|----|------|------|------|------|------|------|------|-----|------|------|--------|
|                                            |                 | 1             | 2    | 3    | 4    | 5    | 6   | 7   | 8   | 9 | 10  | 11   | 12  | 13  | 14  | 15   | 16  | 17  | 18 | 19 | 20 | 21 | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29  | 30   | 31   |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      |        |
| Belvidere.....                             | Delaware.....   |               |      | .15  | *    | 1.63 |     |     |     |   | T.  | .38  |     |     |     |      | .12 |     |    |    |    |    |      |      | .09  | 1.31 |      |      | .28  | .10 | T.   |      | 4.06   |
| Charlotteburg.....                         | Passaic.....    |               | .16  | .08  |      | .29  |     |     |     |   |     | .82  |     |     |     | *    | .14 |     |    |    |    |    | .16  |      | .35  |      |      | .31  |      |     | .04  | 2.35 |        |
| Culvers Lake.....                          | Delaware.....   |               | .33  | .15  |      | T.   |     |     |     |   |     | .29  |     |     | .01 | T.   |     | .02 |    |    |    |    | .42  |      | .25  | .50  |      | .92  | .01  |     | .03  | 2.93 |        |
| Dover.....                                 | Passaic.....    |               | .15  | .16  |      | .16  |     |     |     |   |     | .05  |     | .03 |     | *    | .88 |     |    |    |    |    | .06  |      | .36  |      |      | .28  |      | .01 | .03  | 2.17 |        |
| Layton.....                                | Delaware.....   |               | .29  | .27  |      | .07  |     |     |     |   | .01 | .34  |     |     |     | .69  | T.  | .11 |    |    |    |    | .14  |      | .30  | .02  |      |      | 1.74 | .02 |      | .09  | 4.09   |
| Newton.....                                | Delaware.....   |               | .26  | .08  |      | .28  |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      | \$   |        |
| Phillipsburg.....                          | do.....         |               | .05  | .36  | T.   |      |     |     |     |   | .70 |      |     |     |     |      | .01 |     |    |    |    |    |      | 1.23 | .01  |      |      | .24  | T.   |     | T.   | 2.60 |        |
| Sussex.....                                | Hudson.....     |               |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      |        |
| Bergen Point.....                          | Coast.....      |               | .27  | .61  |      | .61  |     |     |     |   |     | .06  |     |     |     | .61  | .02 |     |    |    |    |    | .22  | .18  |      | .25  |      |      | .27  | .18 |      | .01  | 3.29   |
| Boonton   .....                            | Passaic.....    |               | .10  | .04  | .06  |      | .01 |     |     |   |     | .13  |     |     |     | T.   | .25 |     |    |    |    |    | T.   | .82  | .23  |      |      |      | .25  | T.  | .02  | 1.91 |        |
| Chatham   .....                            | do.....         |               |      | .07  | 1.36 |      | .09 |     |     |   |     |      |     |     |     |      | .80 |     |    |    |    |    |      | .52  |      | .61  |      |      | .44  |     | T.   | 3.89 |        |
| Elizabeth.....                             | Coast.....      |               | .60  | .28  | 1.06 | .73  |     |     |     |   | T.  | T.   |     |     |     | .65  |     |     |    |    |    |    | .18  |      | .40  |      |      | T.   | .74  | .03 | .02  | 4.69 |        |
| Flemington.....                            | Raritan.....    |               | .11  | .51  | 1.15 | T.   |     |     |     |   |     | .34  | T.  |     |     |      | .06 |     |    |    |    |    | T.   | .19  | .02  | .54  |      | 1.08 | .74  | .02 | .03  | 4.79 |        |
| Highwood.....                              | Hackensack..... |               | .27  | .03  |      | .05  |     |     |     |   | T.  | .11  |     |     |     | .08  | .03 |     |    |    |    |    | .41  | .27  | .01  | .14  |      |      | .33  | .08 | T.   | .05  | 1.86   |
| Jersey City.....                           | Coast.....      |               | .38  | .49  | .11  | 1.29 |     |     |     |   | T.  | T.   |     |     |     | .30  | .10 |     |    |    |    |    | .31  | .60  | T.   | .40  |      |      | .28  | .25 | T.   | .04  | 4.55   |
| Lambertville.....                          | Delaware.....   |               | .22  | .13  | .09  | T.   |     |     |     |   | T.  | .82  | .31 |     |     | .80  | .12 |     |    |    |    |    | .41  | .07  | .58  |      | .82  | .30  | .04  | .07 |      | 4.78 |        |
| Little Falls,   .....                      | Passaic.....    |               | .19  | .04  | .02  |      | .57 |     |     |   |     | .16  |     |     |     | .14  |     |     |    |    |    |    |      | 1.47 | .15  |      |      |      | .34  |     | .04  | 3.12 |        |
| Newark**.....                              | Coast.....      |               | .48  | .80  | .72  |      |     |     |     |   | .02 | .12  |     |     |     | .60  | .36 |     |    |    |    |    | 1.48 | .37  | .64  |      |      | .57  | .05  |     | .07  | 6.28 |        |
| New Brunswick.....                         | Raritan.....    |               | .26  | .81  | .40  | .15  |     |     |     |   | .37 | .09  |     |     |     | .45  |     |     |    |    |    |    | .13  | .23  |      | .31  |      | .28  | .41  | T.  | .04  | 3.93 |        |
| New Milford.....                           | Hackensack..... |               | .32  |      |      | .03  |     |     |     |   | .10 |      |     |     |     | .03  | .03 |     |    |    |    |    | .20  | .07  | .02  | .06  |      | .22  | .05  |     |      | 1.13 |        |
| Paterson.....                              | Passaic.....    |               | .31  | .02  | .02  |      |     |     |     |   |     | .17  |     |     |     |      | .10 |     |    |    |    |    | .89  |      | .04  | .13  |      |      | .28  | .09 | T.   | .03  | 2.08   |
| Plainfield.....                            | Raritan.....    |               | .36  | .84  | .69  |      |     |     |     |   | .31 |      |     |     |     | 1.33 | .07 |     |    |    |    |    | T.   | .19  | .36  | .14  | .31  |      | .50  | .27 | T.   | .05  | 5.42   |
| Somerville.....                            | Raritan.....    |               | .22  | 2.25 | .72  | .05  |     |     |     |   | .10 |      |     |     |     | .38  |     |     |    |    |    |    | .24  | .26  | *    | .50  |      | .62  | .41  |     | .06  | 5.81 |        |
| South Orange.....                          | Rahway.....     |               | .43  | .60  |      | .25  |     |     |     |   | .02 |      |     |     |     | *    | .85 |     |    |    |    |    | .57  | .05  | .21  | .03  |      | .63  | .15  | T.  | .05  | 3.84 |        |
| Woodcliff Lake.....                        | Hackensack..... |               | .32  | .05  |      | .05  |     |     |     |   | T.  | T.   |     |     |     | .03  | .05 |     |    |    |    |    | .02  | .08  | .04  |      | .29  |      |      |     |      | 0.93 |        |
| New York, N. Y***                          | Coast.....      |               | .38  | .24  |      | 1.43 |     |     |     |   | T.  | T.   |     |     |     | .37  | .02 |     |    |    |    |    | .39  | .14  | .17  | .18  |      | 1.03 | .29  | T.  | .04  | 4.68 |        |
| <i>The Southern Interior.</i>              |                 |               |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      |        |
| Belle Plain.....                           | Tuckahoe.....   |               | 2.14 | .33  |      | .03  | .08 | .02 |     |   | T.  | T.   | .03 |     |     |      | .20 | T.  |    |    |    |    | T.   | .11  |      | .47  |      | *    | 2.62 |     | .03  | 6.06 |        |
| Bridgeton.....                             | Coast.....      |               | .50  | .28  | .57  | .12  |     |     |     |   |     | .05  |     |     |     |      | .10 |     |    |    |    |    |      | T.   |      |      |      | *    | 1.20 |     | T.   | 2.82 |        |
| Burlington.....                            | Delaware.....   |               | .39  | *    | .85  | .25  |     |     |     |   |     | .15  | .06 |     |     |      | .20 |     |    |    |    |    | .10  |      | 1.66 |      |      | *    | .63  |     | .06  | 4.35 |        |
| Camp Dix   .....                           | Delaware.....   |               | .84  | .04  | .95  | .34  | .26 |     |     |   |     | .12  |     |     |     | .36  |     |     |    |    |    |    | .07  |      | .64  |      |      | *    | .39  | .04 |      | 4.05 |        |
| Hammonton.....                             | Mullica.....    |               | 1.13 | .01  |      |      |     | T.  |     |   |     | 1.74 |     |     |     | .42  |     |     |    |    |    |    |      | .04  |      |      |      |      |      | .09 | .51  | 3.94 |        |
| Hightstown.....                            | Raritan.....    |               | .33  | .10  |      | .52  | .03 |     |     |   |     | .17  | .02 |     |     | .48  |     |     |    |    |    |    | T.   | .04  | .18  | T.   | .53  |      | .26  | .17 | .44  | .03  | 3.80   |
| Imlaystown.....                            | Delaware.....   |               | .47  | .03  | .10  | .16  | .02 |     |     |   |     | .14  | .06 |     |     | .07  |     |     |    |    |    |    | .39  |      | 1.17 |      | 1.07 | .17  | .69  | .01 | 4.55 |      |        |
| Indian Mills.....                          | Mullica.....    |               | 1.25 | T.   | .02  | .70  |     |     |     |   |     | .05  | .20 |     |     | .25  |     |     |    |    |    |    |      | T.   | 1.10 |      |      | 1.23 | .50  | .10 | T.   | 5.40 |        |
| Lakewood.....                              | Metedeconk..... |               | .70  |      | .08  | .60  |     |     |     |   | T.  | .11  | T.  |     |     | .22  |     |     |    |    |    |    | .38  | .18  | T.   | .84  |      | .29  | .30  | .22 | .04  | 3.96 |        |
| Lumberton.....                             | Delaware.....   |               |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      |        |
| Moorestown.....                            | Delaware.....   |               | .40  |      |      | .35  |     |     |     |   |     | .09  |     |     |     | .41  |     |     |    |    |    |    | .15  | .64  |      | .58  |      | 1.25 | .35  | .02 | T.   | 4.24 |        |
| Northfield.....                            | Coast.....      |               | .93  | .84  |      | .07  | .07 |     |     |   |     | .02  | .56 |     |     | .18  |     |     |    |    |    |    |      |      | .02  | .99  |      | *    | 2.12 |     | .04  | 5.84 |        |
| Pleasantville.....                         | Coast.....      |               |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      |        |
| Trenton***.....                            | Delaware.....   |               | .24  | .39  | T.   | .04  |     |     |     |   | .17 | .08  |     |     |     | .07  |     |     |    |    |    |    | .11  |      | .02  | .87  |      | .42  | .76  | T.  | .01  | 3.18 |        |
| Tuckerton.....                             | Coast.....      |               | 1.13 | .12  |      | .36  |     |     |     |   |     | .14  |     |     |     |      |     |     |    |    |    |    |      | T.   |      | .96  |      | 1.55 | .63  |     | .02  | 4.91 |        |
| Vineland.....                              | Maurice.....    |               | .76  |      | .09  | .06  | .07 |     |     |   |     | .50  | .03 |     |     | .15  |     |     |    |    |    |    |      | .17  |      | .04  |      | .32  | .30  |     | .02  | 2.51 |        |
| Philadelphia, Pa.....                      | Delaware.....   |               | .29  | T.   | .10  | .39  |     |     |     |   | .20 | 1.33 | .02 |     |     | .11  |     |     |    |    |    |    | .02  |      |      | T.   | .48  |      | .46  | .08 | .03  | T.   | 3.51   |
| <i>The Sea Coast.</i>                      |                 |               |      |      |      |      |     |     |     |   |     |      |     |     |     |      |     |     |    |    |    |    |      |      |      |      |      |      |      |     |      |      |        |
| Asbury Park.....                           | Coast.....      |               |      | .79  | .56  | .11  | .75 |     |     |   |     | .25  | .05 |     |     | .57  |     |     |    |    |    |    |      | .15  | T.   | T.   | .51  |      | 1.64 | .18 | .01  | .02  | 5.59   |
| Atlantic City***.....                      | do.....         |               | .19  | .96  | .65  |      | .13 |     |     |   | T.  | .01  | .19 |     |     | .31  |     |     |    |    |    |    | .03  |      | .02  | .50  |      | 1.56 | .79  |     | .02  | 5.36 |        |
| Cape May City.....                         | do.....         |               | T.   | .35  | .47  |      |     | .16 | .07 |   |     | .56  | .04 |     |     | T.   |     |     |    |    |    |    | .01  |      | T.   | 1.80 |      | .60  | .65  |     | .06  | 4.77 |        |
| Long Branch**.....                         | do.....         |               | .70  | 1.01 |      | .33  |     |     |     |   | T.  | .13  | .42 |     |     | .59  | .15 |     |    |    |    |    | T.   | .20  |      | .04  | .49  |      | .98  | .12 | T.   | .03  | 5.19   |
| Sandy Hook***.....                         | do.....         |               | .31  | .88  |      | .20  |     |     |     |   | .02 |      |     |     |     | .11  | .03 |     |    |    |    |    | T.   | .02  | .03  | .09  | .17  |      | .32  | .11 | T.   | T.   | 2.29   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine                      |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |                                    |
| Atlantic City.....    | 30.03         | 30.40    | 2     | 29.63   | 25    | 14               | 35              | ne.        | 23    | 81                                         | 79                                         | 59                                 |
| Cape May City.....    | 30.04         | 30.43    | 2     | 29.69   | 25    | 7                | 24              | se.        | 24    | 81                                         | 79                                         | .....                              |
| Long Branch.....      | 30.04         |          |       |         |       |                  | 42              | ne.        | 6     |                                            |                                            |                                    |
| Newark.....           | 30.00         | 30.40    | 2     | 29.65   | 25    | 12               | 39              | w.         | 10    | 75                                         | 68                                         | 58                                 |
| New York, N. Y.....   | 30.02         | 30.41    | 2     | 29.66   | 25    | 9                | 25              | sw.        | 24    | 70                                         | 62                                         | 59                                 |
| Philadelphia, Pa..... | 30.00         | 30.40    | 2     | 29.53   | 25    | 11               | 38              | n.         | 6     | 79                                         | 76                                         | 69                                 |
| Sandy Hook.....       | 30.00         | 30.40    | 2     | 29.65   | 25    | 9                | 38              | nw.        | 6     | 73                                         | 64                                         | 70                                 |
| Trenton.....          | 30.00         | 30.40    | 2     | 29.65   | 25    |                  |                 |            |       |                                            |                                            |                                    |

\* 7 a. m. † 9 p. m.



## Daily Temperatures for July, 1923.

| Stations.                                   | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21  | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean. |                   |      |
|---------------------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|------|-------|-------------------|------|
| <i>The Highlands and Kittatinny Valley.</i> |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |      |       |                   |      |
| Belvidere.....                              | Maximum... | 81 | 83 | 75 | 80 | 84 | 85 | 81 | 80 | 84 | 90 | 84 | 84 | 86 | 86 | 79 | 83 | 84 | 86 | 86 | 93  | 93 | 81 | 78 | 71 | 80 | 79 | 80 | 73 | 83 | 76   | 69    | 81.8              |      |
|                                             | Minimum... | 49 | 54 | 60 | 62 | 66 | 66 | 54 | 55 | 64 | 67 | 65 | 65 | 55 | 66 | 66 | 58 | 65 | 65 | 57 | 55  | 60 | 61 | 53 | 55 | 57 | 54 | 56 | 66 | 60 | 62   | 61    | 59.4 <sup>a</sup> |      |
| Charlotteburg.....                          | Maximum... | 81 | 82 | 78 | 81 | 85 | 81 | 73 | 82 | 85 | 89 | 87 | 85 | 86 | 84 | 80 | 83 | 82 | 86 | 89 | 93  | 94 | 93 | 77 | 70 | 80 | 79 | 80 | 79 | 82 | 70   | 65    | 82.1              |      |
|                                             | Minimum... | 40 | 45 | 56 | 57 | 60 | 63 | 49 | 46 | 46 | 64 | 64 | 60 | 51 | 50 | 60 | 59 | 54 | 46 | 49 | 47  | 55 | 57 | 55 | 45 | 55 | 52 | 43 | 62 | 65 | 62   | 58    | 54.0              |      |
| Dover.....                                  | Maximum... | 81 | 81 | 69 | 83 | 87 | 86 | 83 | 80 | 84 | 90 | 89 | 83 | 86 | 87 | 78 | 85 | 84 | 89 | 88 | 96  | 94 | 87 | 81 | 67 | 82 | 81 | 73 | 82 | 72 | 64   | 82.4  |                   |      |
|                                             | Minimum... | 46 | 51 | 58 | 59 | 59 | 60 | 51 | 54 | 57 | 67 | 68 | 62 | 56 | 56 | 65 | 65 | 58 | 53 | 54 | 55  | 60 | 62 | 54 | 53 | 57 | 55 | 49 | 64 | 67 | 62   | 59    | 57.9              |      |
| Layton.....                                 | Maximum... | 81 | 84 | 74 | 82 | 85 | 75 | 84 | 82 | 88 | 91 | 88 | 86 | 90 | 85 | 79 | 85 | 85 | 79 | 90 | 95  | 94 | 83 | 80 | 72 | 81 | 82 | 83 | 73 | 85 | 78   | 70    | 82.9              |      |
|                                             | Minimum... | 43 | 49 | 57 | 56 | 58 | 60 | 53 | 48 | 48 | 68 | 66 | 56 | 56 | 58 | 68 | 63 | 58 | 51 | 52 | 51  | 59 | 57 | 45 | 49 | 58 | 54 | 46 | 60 | 65 | 64   | 60    | 56.0              |      |
| Newton.....                                 | Maximum... | 78 | 75 | 75 | 82 | 83 | 79 | 79 | 79 | 79 | 84 | 81 | 88 | 91 | 85 | 83 | 82 | 83 | 77 | 85 | 84  | 86 | 84 | 75 | 70 | 81 | 81 | 80 | 81 | 80 | 77   | 65    | 80.7 <sup>a</sup> |      |
|                                             | Minimum... | 53 | 58 | 57 | 57 | 66 | 54 | 61 | 61 | 60 | 71 | 68 | 67 | 66 | 67 | 67 | 66 | 67 | 67 | 68 | 67  | 65 | 61 | 61 | 61 | 65 | 60 | 63 | 67 | 69 | 62   | 60    | 64.8              |      |
| Phillipsburg.....                           | Maximum... | 84 | 83 | 78 | 86 | 90 | 88 | 85 | 82 | 88 | 93 | 87 | 86 | 88 | 88 | 82 | 85 | 85 | 89 | 89 | 97  | 96 | 91 | 83 | 70 | 83 | 83 | 82 | 79 | 87 | 75   | 70    | 85.0              |      |
|                                             | Minimum... | 50 | 54 | 60 | 63 | 60 | 62 | 58 | 57 | 55 | 67 | 70 | 67 | 64 | 60 | 67 | 67 | 61 | 56 | 56 | 55  | 60 | 54 | 54 | 58 | 61 | 57 | 53 | 59 | 67 | 65   | 62    | 60.0              |      |
| Sussex.....                                 | Maximum... | 78 | 75 | 75 | 82 | 83 | 79 | 79 | 79 | 79 | 84 | 81 | 88 | 91 | 85 | 83 | 82 | 83 | 77 | 85 | 84  | 86 | 84 | 75 | 70 | 81 | 81 | 80 | 81 | 80 | 77   | 65    | 80.7 <sup>a</sup> |      |
|                                             | Minimum... | 53 | 58 | 57 | 57 | 66 | 54 | 61 | 61 | 60 | 71 | 68 | 67 | 66 | 67 | 67 | 66 | 67 | 67 | 68 | 67  | 65 | 61 | 61 | 61 | 65 | 60 | 63 | 67 | 69 | 62   | 60    | 64.8              |      |
| <i>The Red Sandstone Plain.</i>             |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |      |       |                   |      |
| Bergen Point.....                           | Maximum... | 83 | 79 | 73 | 77 | 84 | 84 | 77 | 77 | 85 | 89 | 85 | 79 | 77 | 80 | 77 | 85 | 85 | 85 | 80 | 97  | 97 | 86 | 78 | 71 | 83 | 82 | 83 | 81 | 81 | 71   | 66    | 80.7 <sup>a</sup> |      |
|                                             | Minimum... | 57 | 60 | 59 | 63 | 61 | 67 | 61 | 61 | 57 | 67 | 71 | 61 | 64 | 65 | 67 | 68 | 63 | 62 | 64 | 60  | 67 | 70 | 60 | 59 | 61 | 61 | 59 | 59 | 59 | 65   | 61    | 62.5              |      |
| Boonton§§.....                              | Maximum... | 83 | 81 | 72 | 83 | 87 | 84 | 83 | 81 | 84 | 89 | 86 | 86 | 84 | 86 | 77 | 85 | 85 | 90 | 87 | 95  | 95 | 85 | 80 | 69 | 82 | 81 | 81 | 75 | 84 | 72   | 66    | 82.5              |      |
|                                             | Minimum... | 43 | 48 | 55 | 58 | 55 | 60 | 50 | 51 | 48 | 65 | 66 | 60 | 53 | 53 | 60 | 64 | 59 | 55 | 51 | 50  | 59 | 57 | 55 | 49 | 56 | 54 | 47 | 56 | 65 | 64   | 58    | 55.7              |      |
| Elizabeth.....                              | Maximum... | 85 | 82 | 73 | 83 | 88 | 87 | 81 | 79 | 88 | 91 | 90 | 86 | 84 | 87 | 89 | 89 | 91 | 88 | 96 | 99  | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99   | 99    | 99                | 99   |
|                                             | Minimum... | 51 | 56 | 59 | 62 | 58 | 68 | 56 | 54 | 66 | 70 | 77 | 59 | 61 | 61 | 67 | 61 | 56 | 57 | 56 | 62  | 62 | 62 | 59 | 57 | 57 | 57 | 57 | 57 | 57 | 57   | 57    | 57                |      |
| Flemington.....                             | Maximum... | 84 | 82 | 77 | 86 | 88 | 87 | 84 | 82 | 86 | 89 | 89 | 85 | 88 | 88 | 87 | 88 | 87 | 90 | 91 | 99  | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99 | 99   | 99    | 99                |      |
|                                             | Minimum... | 49 | 54 | 59 | 61 | 60 | 68 | 59 | 58 | 53 | 66 | 70 | 68 | 59 | 59 | 67 | 68 | 62 | 58 | 57 | 55  | 66 | 65 | 58 | 57 | 59 | 59 | 52 | 66 | 68 | 65   | 62    | 60.9              |      |
| Highwood.....                               | Maximum... | 80 | 79 | 70 | 78 | 83 | 78 | 78 | 76 | 87 | 89 | 86 | 82 | 82 | 83 | 75 | 83 | 81 | 87 | 86 | 98  | 95 | 84 | 75 | 70 | 81 | 81 | 80 | 77 | 78 | 73   | 66    | 80.7              |      |
|                                             | Minimum... | 50 | 54 | 59 | 62 | 56 | 63 | 53 | 51 | 66 | 69 | 65 | 57 | 58 | 66 | 67 | 68 | 62 | 58 | 54 | 55  | 63 | 63 | 61 | 57 | 51 | 60 | 53 | 53 | 69 | 68   | 65    | 60                | 59.0 |
| Jersey City.....                            | Maximum... | 83 | 80 | 70 | 80 | 86 | 84 | 79 | 79 | 84 | 91 | 85 | 83 | 82 | 83 | 77 | 85 | 84 | 86 | 84 | 98  | 98 | 86 | 80 | 71 | 82 | 82 | 80 | 80 | 81 | 72   | 65    | 81.9              |      |
|                                             | Minimum... | 60 | 65 | 57 | 62 | 64 | 67 | 65 | 61 | 61 | 60 | 71 | 68 | 67 | 66 | 67 | 70 | 67 | 68 | 67 | 65  | 75 | 61 | 61 | 61 | 65 | 60 | 63 | 67 | 69 | 62   | 60    | 64.8              |      |
| Lambertville.....                           | Maximum... | 85 | 84 | 72 | 82 | 90 | 87 | 84 | 81 | 88 | 91 | 87 | 86 | 87 | 87 | 80 | 85 | 85 | 87 | 89 | 95  | 95 | 89 | 79 | 68 | 81 | 80 | 84 | 76 | 86 | 74   | 65    | 83.7              |      |
|                                             | Minimum... | 52 | 58 | 57 | 61 | 61 | 68 | 59 | 58 | 54 | 66 | 69 | 67 | 62 | 61 | 68 | 67 | 63 | 60 | 59 | 61  | 69 | 68 | 58 | 58 | 61 | 57 | 55 | 64 | 68 | 65   | 61    | 61.8              |      |
| Little Falls§§.....                         | Maximum... | 88 | 86 | 78 | 82 | 91 | 88 | 86 | 81 | 88 | 92 | 91 | 88 | 85 | 87 | 79 | 87 | 88 | 92 | 90 | 99  | 96 | 92 | 82 | 75 | 86 | 84 | 87 | 81 | 85 | 73   | 66    | 85.6              |      |
|                                             | Minimum... | 49 | 53 | 59 | 58 | 57 | 63 | 55 | 53 | 53 | 67 | 69 | 63 | 57 | 57 | 64 | 66 | 58 | 54 | 55 | 62  | 62 | 58 | 52 | 59 | 56 | 51 | 60 | 67 | 65 | 60   | 58.6  |                   |      |
| Newark.....                                 | Maximum... | 84 | 77 | 71 | 78 | 87 | 85 | 80 | 79 | 88 | 92 | 87 | 85 | 79 | 83 | 77 | 86 | 85 | 88 | 84 | 99  | 96 | 86 | 81 | 71 | 85 | 86 | 82 | 78 | 83 | 69   | 62    | 82.4              |      |
|                                             | Minimum... | 58 | 62 | 57 | 64 | 62 | 65 | 60 | 61 | 68 | 72 | 69 | 64 | 64 | 68 | 70 | 64 | 64 | 63 | 64 | 74  | 69 | 60 | 62 | 63 | 61 | 61 | 68 | 68 | 65 | 61   | 59.0  |                   |      |
| New Brunswick.....                          | Maximum... | 82 | 81 | 76 | 79 | 85 | 86 | 80 | 77 | 86 | 92 | 88 | 84 | 84 | 85 | 83 | 94 | 84 | 85 | 84 | 96  | 97 | 94 | 80 | 79 | 83 | 81 | 82 | 80 | 84 | 77   | 67    | 83.7              |      |
|                                             | Minimum... | 50 | 55 | 55 | 61 | 59 | 68 | 58 | 59 | 46 | 56 | 69 | 67 | 52 | 60 | 64 | 68 | 63 | 57 | 52 | 48  | 67 | 67 | 59 | 51 | 52 | 57 | 53 | 63 | 68 | 65   | 61    | 59.0              |      |
| Paterson.....                               | Maximum... | 85 | 84 | 77 | 82 | 87 | 83 | 84 | 83 | 91 | 93 | 90 | 88 | 85 | 88 | 78 | 89 | 87 | 92 | 90 | 100 | 99 | 90 | 81 | 76 | 85 | 86 | 79 | 81 | 80 | 67   | 85.4  |                   |      |
|                                             | Minimum... | 56 | 58 | 58 | 63 | 60 | 67 | 59 | 58 | 58 | 69 | 70 | 66 | 61 | 61 | 67 | 69 | 61 | 60 | 59 | 61  | 70 | 65 | 60 | 56 | 61 | 59 | 56 | 69 | 69 | 67   | 60    | 62.4              |      |
| Plainfield.....                             | Maximum... | 84 | 81 | 72 | 81 | 86 | 87 | 81 | 82 | 86 | 90 | 87 | 84 | 82 | 87 | 78 | 86 | 87 | 86 | 96 | 97  | 87 | 81 | 71 | 84 | 83 | 80 | 80 | 80 | 71 | 65   | 82.9  |                   |      |
|                                             | Minimum... | 47 | 52 | 58 | 60 | 56 | 63 | 55 | 55 | 53 | 65 | 69 | 66 | 56 | 57 | 63 | 67 | 61 | 54 | 55 | 60  | 61 | 57 | 54 | 60 | 55 | 50 | 60 | 65 | 67 | 60   | 58.5  |                   |      |
| Somerville.....                             | Maximum... | 87 | 84 | 80 | 87 | 89 | 88 | 85 | 81 | 88 | 91 | 88 | 84 | 86 | 87 | 80 | 87 | 89 | 95 | 97 | 96  | 91 | 76 | 84 | 83 | 84 | 78 | 88 | 78 | 67 | 85.3 |       |                   |      |
|                                             | Minimum... | 48 | 52 | 59 | 60 | 57 | 67 | 57 | 57 | 51 | 63 | 69 | 67 | 59 | 59 | 65 | 66 | 61 | 54 | 55 | 54  | 59 | 63 | 58 | 56 | 60 | 54 | 50 | 63 | 68 | 67   | 62    | 59.4              |      |
| South Orange.....                           | Maximum... | 80 | 70 | 71 | 79 | 84 | 80 | 80 | 77 | 83 | 88 | 85 | 83 | 81 | 84 | 78 | 84 | 83 | 85 | 83 | 94  | 92 | 84 | 79 | 67 | 79 | 80 | 82 | 77 | 82 | 71   | 65    | 80.3              |      |
|                                             | Minimum... | 60 | 58 | 60 | 63 | 60 | 61 | 60 | 60 | 58 | 66 | 69 | 64 | 61 | 61 | 66 | 68 | 63 | 59 | 59 | 62  | 71 | 64 | 60 | 59 | 62 | 51 | 36 | 65 | 68 | 64   | 61    | 62.2              |      |
| New York, N. Y.....                         | Maximum... | 80 | 77 | 68 | 76 | 83 | 80 | 76 | 75 | 81 | 86 | 84 | 81 | 81 | 78 | 76 | 83 | 82 | 84 | 80 | 94  | 94 | 84 | 76 | 71 | 80 | 81 | 78 | 81 | 72 | 65   | 79.6  |                   |      |
|                                             | Minimum... | 62 | 66 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |      |       |                   |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
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# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXVIII.      AUGUST, 1923.      No. 8.

### GENERAL SUMMARY.

The rainfall deficiency, which has been accumulating with notable constancy for several months, continued through August. This factor became emphatic in revealing unlooked for scarcities of water supply in various situations, and in many instances brought about considerable hardship. The lack of rain for the month alone was nothing unusual, as the rainfall for the months of August of as recent years as 1916, 1917, and 1918 was each less than in the year 1923. The deficiency of warmth was not unusual, as is shown by making comparison with 1919 and 1921, when cooler weather prevailed in August. The combination, however, of subnormal warmth and moisture, made the month remarkable, particularly, as oppressive moisture and heat is ordinarily to be expected. A further remarkable feature which has developed is that the rain which has occurred has very steadily been at other times of day than the period of usual working hours, for a period of nearly six months. Contractors have lost practically no time on account of the weather during this period.

The deficiency in warmth was remarkably steady, lasting from the 2d week almost to the close of the month, and the extreme low reading of the State, 35°, was within one degree of the low August record. Scattered occurrences of frost in August were rare phenomena and might have resulted seriously had not the possibility of injury been mitigated by the dry weather.

A further somewhat unusual feature was the persistence and strength of the southwesterly winds.

Storm warnings were displayed on the 21st and 22d.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 36 stations, was 70.8°, which was 1.2° below the normal. The highest temperature was 98° at Little Falls, on the 5th, and the lowest, 35°, at Charlotteburg on the 24th. The highest monthly mean temperature was 74.6° at Vineland, and the lowest, 66.2° at Charlotteburg. The greatest daily range of temperature was 44° at Little Falls on the 26th.

The temperature departure from the normal for the year 1923 to date, by sections, is: The Highlands, -0.8°; Red Sandstone Plain, -0.8°; Southern Interior, -0.2°; Sea Coast, -0.3°.

### PRECIPITATION.

The average total rainfall of the State, as deduced from observations of 41 stations, was 2.44 inches, which was 2.30 inches below the normal. The greatest monthly amount was 4.81 inches at Bridgeton, and the least, 1.23 inches at Little Falls. The greatest amount accumulated in any 24 consecutive hours was 3.10 inches at Bridgeton on the 5th. The average number of days on which .01 inch or more rain fell was 8, which was 2 less than the normal.

The accumulated precipitation departure from the normal for the year 1923 to date, by sections, is: The Highlands, -6.76 inches; Red Sandstone Plain, -7.81 inches; Southern Interior, -5.09 inches; Sea Coast, -4.06 inches.

### WIND.

The prevailing wind movement was from the southwest, with an average velocity of 11 miles per hour, which was 2 miles per hour above the normal. The highest velocity, sustained for 5

consecutive minutes, was 44 miles per hour from the northwest at Atlantic City and Sandy Hook on the 22d.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State, was 17, or 4 more than normal; partly cloudy, 8, or 3 less than the normal; cloudy, 6, or 1 less than the normal. The per cent of possible sunshine was 72, which was 6 per cent more than the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.00 inches, which was normal. The highest reading was 30.22 inches at Cape May City on the 31st, and the lowest 29.59 inches at Sandy Hook on the 22d.

The mean stage of the Delaware River at Phillipsburg was 0.4 foot; and the highest stage 1.7 feet on the 1st. At Trenton the mean daily stage was 0.2 foot, which was 0.9 foot below the normal. The highest stage was 1.3 feet on the 1st.

Thunderstorms occurred in some portions of the State on the 3d, 4th, 5th, 8th, 12th, 13th, 15th, 19th, 20th, 22d, 27th, 28th, 29th, and 30th. Dense fog was noted on the 3d, 6th, 19th, 27th, and 30th. A lunar halo was observed on the 20th. Light haze prevailed in various localities from the 3d to the 8th, and also on the 11th, 14th, 15th, and 31st. Light frost was reported from Culvers Lake, in northern Sussex County on the 23d, and also in the cranberry bogs on the 24th.

Hail fell, without appreciable damage, at Layton on the 3d, Trenton on the 15th, and Flemington, Lambertville and Jamesburg on the 19th. Severe damage from hail occurred at Belmar on the 15th, and at Hopewell on the 19th. A severe wind storm on the 19th passed from southern Hunterdon County over Hopewell, Freehold, Belmar and out to sea.

### COMPARATIVE DATA FOR AUGUST.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 71.7         | 95       | 40      | 6.11           | 10.09     | 3.47   | .....        | .....          | .....   | .....                  |
| 1886..... | 69.5         | 96       | 42      | 2.81           | 5.36      | 1.10   | .....        | .....          | .....   | 8                      |
| 1887..... | 70.4         | 94       | 42      | 3.76           | 7.34      | 2.09   | .....        | .....          | .....   | 8                      |
| 1888..... | 72.5         | 98       | 41      | 6.13           | 10.53     | 2.55   | .....        | .....          | .....   | 9                      |
| 1889..... | 69.6         | 91       | 45      | 5.13           | 9.06      | 1.93   | .....        | .....          | .....   | 10                     |
| 1890..... | 71.5         | 99       | 40      | 4.90           | 7.51      | 2.89   | 8            | 15             | 8       | 11                     |
| 1891..... | 72.8         | 100      | 46      | 5.32           | 8.89      | 2.58   | 8            | 11             | 12      | 13                     |
| 1892..... | 73.4         | 99       | 46      | 3.63           | 5.65      | 0.72   | 12           | 13             | 6       | 9                      |
| 1893..... | 72.8         | 98       | 38      | 6.52           | 11.94     | 3.55   | 14           | 11             | 6       | 8                      |
| 1894..... | 70.9         | 97       | 44      | 2.58           | 9.28      | 0.15   | 13           | 12             | 6       | 7                      |
| 1895..... | 74.2         | 102      | 54      | 2.53           | 5.06      | 0.02   | 16           | 12             | 3       | 7                      |
| 1896..... | 73.6         | 105      | 39      | 1.83           | 3.27      | 0.50   | 17           | 10             | 4       | 7                      |
| 1897..... | 71.0         | 91       | 41      | 4.39           | 8.69      | 2.07   | 14           | 12             | 5       | 9                      |
| 1898..... | 74.8         | 98       | 42      | 5.36           | 9.28      | 2.70   | 12           | 12             | 7       | 10                     |
| 1899..... | 72.3         | 99       | 39      | 4.36           | 9.70      | 2.16   | 10           | 12             | 9       | 9                      |
| 1900..... | 76.3         | 104      | 41      | 2.68           | 4.56      | 0.70   | 15           | 11             | 5       | 10                     |
| 1901..... | 73.8         | 98       | 44      | 9.43           | 15.80     | 4.88   | 12           | 10             | 9       | 11                     |
| 1902..... | 70.1         | 93       | 40      | 3.91           | 10.67     | 1.31   | 15           | 13             | 3       | 9                      |
| 1903..... | 68.4         | 98       | 39      | 6.95           | 14.54     | 4.30   | 10           | 10             | 11      | 13                     |
| 1904..... | 70.8         | 92       | 37      | 6.62           | 13.01     | 2.65   | 15           | 10             | 6       | 9                      |
| 1905..... | 71.1         | 95       | 38      | 5.72           | 9.88      | 3.51   | 13           | 10             | 8       | 12                     |
| 1906..... | 74.6         | 97       | 42      | 5.95           | 17.91     | 2.21   | 10           | 11             | 10      | 13                     |
| 1907..... | 70.5         | 96       | 39      | 3.45           | 7.61      | 1.79   | 14           | 12             | 5       | 10                     |
| 1908..... | 70.6         | 103      | 36      | 5.05           | 9.23      | 2.43   | 11           | 10             | 10      | 10                     |
| 1909..... | 70.2         | 100      | 54      | 4.59           | 12.94     | 1.41   | 14           | 9              | 8       | 6                      |
| 1910..... | 70.4         | 92       | 36      | 3.78           | 8.46      | 1.76   | 9            | 10             | 12      | 10                     |
| 1911..... | 72.1         | 101      | 39      | 8.91           | 14.74     | 5.31   | 10           | 11             | 10      | 11                     |
| 1912..... | 70.0         | 95       | 35      | 3.42           | 7.62      | 1.19   | 12           | 13             | 6       | 10                     |
| 1913..... | 71.7         | 100      | 38      | 4.06           | 10.21     | 1.93   | 18           | 9              | 4       | 10                     |
| 1914..... | 73.3         | 98       | 46      | 3.15           | 6.53      | 1.04   | 13           | 12             | 6       | 9                      |
| 1915..... | 70.9         | 98       | 41      | 7.73           | 10.92     | 4.02   | 11           | 11             | 9       | 13                     |
| 1916..... | 73.2         | 100      | 40      | 1.54           | 4.15      | 0.27   | 20           | 7              | 4       | 6                      |
| 1917..... | 74.0         | 103      | 42      | 2.21           | 5.68      | 0.86   | 18           | 9              | 4       | 8                      |
| 1918..... | 74.4         | 108      | 40      | 1.85           | 4.25      | 0.34   | 18           | 7              | 6       | 7                      |
| 1919..... | 69.9         | 98       | 38      | 6.89           | 12.88     | 3.09   | 13           | 10             | 8       | 13                     |
| 1920..... | 72.3         | 94       | 42      | 6.10           | 10.60     | 2.94   | 8            | 11             | 12      | 17                     |
| 1921..... | 69.8         | 97       | 38      | 4.32           | 8.01      | 2.05   | 18           | 7              | 6       | 9                      |
| 1922..... | 71.2         | 96       | 39      | 4.03           | 6.78      | 2.18   | 13           | 9              | 9       | 12                     |
| 1923..... | 70.8         | 98       | 35      | 2.44           | 4.81      | 1.23   | 17           | 8              | 6       | 8                      |



## Climatological Data for August, 1923.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |       |         |       | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        |             | Prevailing direction of wind. | Observers.                                                                                        |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-------|---------|-------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------|-------------------------------|---------------------------------------------------------------------------------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. | Pt. cloudy. |                               |                                                                                                   |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                                                                                                   |
| Belvidere.....                       | Warren.....     | 289              | 32                       | 68.2                          | -2.8                       | 88       | 3†    | 42      | 23    | 36                        | 2.47   | -2.14                      | 0.85                  | 0                          | 6                              | .....  | .....       | .....                         | Samuel J. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                  |
| Charlotteburg.....                   | Passaic.....    | 719              | 31                       | 66.2                          | -1.7                       | 91       | 3†    | 35      | 24    | 43                        | 2.22   | -2.40                      | 0.68                  | 0                          | 6                              | 21     | 3           | 7                             |                                                                                                   |
| Culvers Lake.....                    | Sussex.....     | 848              | 22                       | .....                         | .....                      | .....    | ..... | 42      | 24    | .....                     | 3.36   | -1.06                      | 1.30                  | 0                          | 8                              | 22     | 7           | 2                             |                                                                                                   |
| Dover.....                           | Morris.....     | 600              | 39                       | 69.4 <sup>b</sup>             | +0.3                       | 93       | 4     | 41      | 23    | 40                        | 1.54   | -3.22                      | 0.52                  | 0                          | 7                              | 9      | 17          | 5                             |                                                                                                   |
| Layton.....                          | Sussex.....     | 480              | 22                       | 67.3                          | -1.1                       | 92       | 4†    | 38      | 23†   | 41                        | 3.99   | +0.09                      | 2.15                  | 0                          | 8                              | 20     | 5           | 6                             | A. M. Depue.<br>Irving G. Kern.<br>Town Engineer.                                                 |
| Newton.....                          | Sussex.....     | 769              | 40                       | 70.4                          | 0.0                        | 91       | 3†    | 42      | 23    | 37                        | 1.97   | -2.45                      | 0.80                  | 0                          | 7                              | 21     | 4           | 6                             |                                                                                                   |
| Phillipsburg.....                    | Warren.....     | 363              | 40                       | 70.7                          | -1.1                       | 91       | 3†    | 45      | 23†   | 37                        | 3.59   | -1.03                      | 0.96                  | 0                          | 7                              | 22     | 7           | 2                             |                                                                                                   |
| Sussex.....                          | Sussex.....     | 442              | 29                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | 0                          | .....                          | .....  | .....       | .....                         |                                                                                                   |
| Means and extremes...                |                 |                  |                          | 68.7                          | -1.1                       | 93       | 4     | 35      | 24    | 43                        | 2.73   | -1.74                      | 2.15                  | 0                          | 7                              | 19     | 7           | 5                             | sw.                                                                                               |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                                                                                                   |
| Bergen Point.....                    | Hudson.....     | 37               | 26                       | 72.0                          | -0.2                       | 91       | 3†    | 50      | 23    | 27                        | 1.62   | -3.44                      | 0.78                  | 0                          | 7                              | 10     | 18          | 3                             | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                        |
| Boonton.....                         | Morris.....     | 400              | 33                       | 67.2                          | -4.1                       | 93       | 4     | 38      | 23    | 39                        | 1.43   | -3.65                      | 0.59                  | 0                          | 6                              | .....  | .....       | .....                         |                                                                                                   |
| Chatham.....                         | Morris.....     | 185              | 19                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.57   | -2.84                      | 0.68                  | 0                          | 6                              | .....  | .....       | .....                         |                                                                                                   |
| Elizabeth.....                       | Union.....      | 45               | 44                       | 72.4                          | -1.0                       | 93       | 3     | 43      | 23    | 36                        | 1.74   | -2.56                      | 1.04                  | 0                          | 8                              | 22     | 6           | 3                             |                                                                                                   |
| Flemington.....                      | Hunterdon.....  | 140              | 37                       | 71.0                          | -1.5                       | 92       | 7     | 44      | 23    | 35                        | 3.84   | -0.87                      | 0.90                  | 0                          | 11                             | 18     | 8           | 5                             | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                  |
| Highwood...†                         | Bergen.....     | 90               | 35                       | 69.2                          | -1.6                       | 89       | 3†    | 41      | 23    | 36                        | 1.56   | -3.19                      | 0.80                  | 0                          | 5                              | 12     | 11          | 8                             |                                                                                                   |
| Jersey City.....                     | Hudson.....     | 10               | 25                       | 72.6                          | -1.5                       | 91       | 5     | 53      | 22†   | 26                        | 1.26   | -3.27                      | 0.40                  | 0                          | 6                              | 19     | 9           | 3                             |                                                                                                   |
| Lambertville.....                    | Hunterdon.....  | 370              | 36                       | 70.2                          | -2.2                       | 90       | 3†    | 46      | 23    | 31                        | 3.72   | -0.94                      | 1.26                  | 0                          | 10                             | 17     | 6           | 8                             |                                                                                                   |
| Little Falls.....                    | Passaic.....    | 180              | 520                      | 70.6                          | -2.6                       | 98       | 5     | 40      | 26    | 44                        | 1.23   | -3.17                      | 0.45                  | 0                          | 7                              | 15     | 10          | 6                             | Montclair Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co. |
| Newark.....                          | Essex.....      | 159              | 81                       | 72.6                          | -0.2                       | 90       | 3     | 53      | 23    | 28                        | 2.59   | -2.48                      | 0.50                  | 0                          | 10                             | 18     | 11          | 2                             |                                                                                                   |
| New Brunswick.....                   | Middlesex.....  | 110              | 70                       | 70.8                          | -1.3                       | 93       | 8     | 45      | 23†   | 37                        | 1.29   | -3.86                      | 0.33                  | 0                          | 6                              | 17     | 10          | 4                             |                                                                                                   |
| New Milford...†                      | Bergen.....     | .....            | 3                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.37   | .....                      | 0.57                  | 0                          | 7                              | .....  | .....       | .....                         |                                                                                                   |
| Paterson.....                        | Passaic.....    | 80               | 52                       | 72.9                          | +0.7                       | 95       | 4     | 47      | 23    | 36                        | 1.24   | -3.49                      | 0.62                  | 0                          | 8                              | .....  | .....       | .....                         | Marion T. Probert.<br>E. D. Pearson.<br>H. B. TenEyck.<br>Wm. H. Meeder.                          |
| Plainfield.....                      | Union.....      | 120              | 35                       | 69.8                          | -2.0                       | 91       | 3†    | 41      | 23    | 37                        | 1.72   | -3.49                      | 0.55                  | 0                          | 10                             | 18     | 10          | 3                             |                                                                                                   |
| Somerville.....                      | Somerset.....   | 70               | 40                       | 70.8                          | -1.6                       | 93       | 4     | 40      | 23    | 41                        | 1.58   | -3.26                      | 0.58                  | 0                          | 8                              | .....  | .....       | .....                         |                                                                                                   |
| South Orange.....                    | Essex.....      | 200              | 53                       | 70.7 <sup>d</sup>             | -0.2                       | 88       | 3†    | 44      | 23    | .....                     | .....  | .....                      | .....                 | 0                          | .....                          | 24     | 3           | 4                             |                                                                                                   |
| Woodcliff Lake...†                   | Bergen.....     | .....            | 3                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.28   | .....                      | 0.60                  | 0                          | .....                          | .....  | .....       | .....                         | Hackensack Water Co.<br>U. S. Weather Bureau.                                                     |
| New York, N. Y.....                  | .....           | 365              | 53                       | 71.3                          | -1.8                       | 89       | 5     | 53      | 22    | 25                        | 1.12   | -3.41                      | 0.44                  | 0                          | 7                              | 14     | 11          | 6                             |                                                                                                   |
| Means and extremes...                |                 |                  |                          | 70.9                          | -1.4                       | 98       | 5     | 38      | 23    | 44                        | 1.82   | -2.89                      | 1.26                  | 0                          | 8                              | 17     | 9           | 5                             | sw.                                                                                               |
| The Southern Interior.               |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                                                                                                   |
| Belle Plain.....                     | Cape May.....   | 30               | 29                       | 70.0                          | -2.6                       | 94       | 8     | 39      | 24    | 39                        | 1.85   | -2.45                      | 0.55                  | 0                          | 11                             | 18     | 6           | 7                             | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>U. S. Army.                           |
| Bridgeton.....                       | Cumberland..... | 30               | 42                       | 74.0                          | -1.0                       | 96       | 8     | 49      | 23†   | 33                        | 4.81   | +0.22                      | 3.10                  | 0                          | 9                              | 20     | 3           | 8                             |                                                                                                   |
| Burlington.....                      | Burlington..... | 12               | 37                       | 73.1                          | -1.1                       | 94       | 3     | 47      | 23    | 33                        | 3.86   | -1.59                      | 1.10                  | 0                          | 9                              | 21     | 3           | 7                             |                                                                                                   |
| Camp Dix.....                        | Burlington..... | 127              | 5                        | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | 0                          | .....                          | .....  | .....       | .....                         |                                                                                                   |
| Hammonton.....                       | Atlantic.....   | 103              | 22                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....       | .....                         | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.           |
| Hightstown.....                      | Mercer.....     | 120              | 31                       | 69.7                          | -2.6                       | 91       | 3     | 42      | 23    | 35                        | 3.72   | -0.86                      | 0.98                  | 0                          | 9                              | 21     | 7           | 3                             |                                                                                                   |
| Imlaystown.....                      | Monmouth.....   | 115              | 35                       | 71.0                          | -1.8                       | 92       | 3     | 41      | 23    | 40                        | 3.44   | -0.33                      | 0.89                  | 0                          | 7                              | 18     | 9           | 4                             |                                                                                                   |
| Indian Mills...†                     | Burlington..... | 76               | 34                       | 71.8                          | -0.8                       | 93       | 3     | 42      | 23    | 38                        | 2.83   | -3.10                      | 0.69                  | 0                          | 6                              | 14     | 8           | 9                             |                                                                                                   |
| Lakewood.....                        | Ocean.....      | 54               | 19                       | 70.0                          | -1.1                       | 92       | 3     | 42      | 23    | 37                        | 3.12   | -2.93                      | 1.70                  | 0                          | 9                              | 16     | 6           | 9                             | R. W. Holman.<br>Ralph B. Stermer.<br>John B. Warrick.<br>William L. Flick.                       |
| Lumberton.....                       | Burlington..... | 20               | .....                    | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | .....  | .....                      | .....                 | 0                          | .....                          | .....  | .....       | .....                         |                                                                                                   |
| Moorestown.....                      | Burlington..... | 75               | 60                       | 72.2                          | -0.4                       | 92       | 3     | 46      | 23    | 33                        | 3.32   | -1.57                      | 1.16                  | 0                          | 7                              | 14     | 11          | 6                             |                                                                                                   |
| Northfield...†                       | Atlantic.....   | 25               | 16                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 1.52   | -2.83                      | 0.46                  | 0                          | 7                              | .....  | .....       | .....                         |                                                                                                   |
| Pleasantville...†                    | Atlantic.....   | 26               | 25                       | .....                         | .....                      | .....    | ..... | .....   | ..... | .....                     | 2.10   | -2.83                      | 0.88                  | 0                          | 7                              | 17     | 7           | 7                             | Lincoln Van Gilder.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes.                  |
| Trenton.....                         | Mercer.....     | 190              | 51                       | 71.6                          | -1.4                       | 90       | 4     | 48      | 23    | 26                        | 3.32   | -2.05                      | 1.47                  | 0                          | 8                              | 11     | 8           | 12                            |                                                                                                   |
| Tuckerton.....                       | Ocean.....      | 23               | 30                       | 72.2                          | -0.5                       | 95       | 8     | 42      | 23    | 38                        | 1.70   | -3.84                      | 0.87                  | 0                          | 4                              | 17     | 11          | 3                             |                                                                                                   |
| Vineland.....                        | Cumberland..... | 109              | 54                       | 74.6 <sup>b</sup>             | +0.9                       | 95       | 8     | 52      | 26    | 35                        | 2.44   | -2.37                      | 0.73                  | 0                          | 7                              | 16     | 10          | 5                             |                                                                                                   |
| Philadelphia, Pa.....                | .....           | 117              | 53                       | 73.8                          | -1.0                       | 91       | 7     | 55      | 23    | 24                        | 4.26   | -0.35                      | 1.52                  | 0                          | 10                             | 11     | 10          | 10                            | U. S. Weather Bureau.                                                                             |
| Means and extremes...                |                 |                  |                          | 71.9                          | -1.1                       | 96       | 8     | 39      | 24    | 40                        | 2.93   | -2.04                      | 3.10                  | 0                          | 8                              | 17     | 7           | 7                             | sw.                                                                                               |
| The Sea Coast.                       |                 |                  |                          |                               |                            |          |       |         |       |                           |        |                            |                       |                            |                                |        |             |                               |                                                                                                   |
| Asbury Park.....                     | Monmouth.....   | 22               | 34                       | 69.5 <sup>a</sup>             | -2.3                       | 88       | 5†    | 51      | 24    | 25                        | 3.32   | -1.74                      | 1.31                  | 0                          | 6                              | 22     | 3           | 6                             | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.   |
| Atlantic City.....                   | Atlantic.....   | 16               | 49                       | 71.6                          | -0.9                       | 91       | 8     | 55      | 23    | 20                        | 1.27   | -3.03                      | 0.42                  | 0                          | 8                              | 14     | 11          | 6                             |                                                                                                   |
| Cape May City.....                   | Cape May.....   | 17               | 39                       | 72.8                          | -0.6                       | 93       | 8     | 51      | 23    | 22                        | 4.02   | -0.24                      | 1.67                  | 0                          | 13                             | 15     | 6           | 10                            |                                                                                                   |
| Long Branch.....                     | Monmouth.....   | 25               | 16                       | 69.2                          | -1.8                       | 89       | 3†    | 48      | 23    | 23                        | 3.24   | -2.89                      | 1.17                  | 0                          | 9                              | 17     | 9           | 5                             |                                                                                                   |
| Sandy Hook.....                      | Monmouth.....   | 22               | 25                       | 71.4                          | -1.4                       | 88       | 4     | 56      | 23    | 22                        | 1.96   | -2.58                      | 1.04                  | 0                          | 6                              | 15     | 12          | 4                             | s.                                                                                                |
| Means and extremes...                |                 |                  |                          | 70.9                          | -1.4                       | 93       | 8     | 48      | 23    | 25                        | 2.76   | -2.10                      | 1.67                  | 0                          | 8                              | 17     | 8           | 6                             | .....                                                                                             |
| For the State.....                   |                 |                  |                          | 70.8                          | -1.2                       | 98       | 5     | 35      | 24    | 44                        | 2.44   | -2.30                      | 3.10                  | 0                          | 8                              | 17     | 8           | 6                             | sw.                                                                                               |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Ridgefield is Morsemere; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for August, 1923.

| Stations.                                  | Drainage Basin. | Day of month. |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    | Total. |
|--------------------------------------------|-----------------|---------------|------|-----|-----|------|-----|-----|-----|-----|----|-----|-----|-----|-----|------|-----|-----|-----|------|------|-----|-----|-----|----|----|----|-----|-----|------|------|----|--------|
|                                            |                 | 1             | 2    | 3   | 4   | 5    | 6   | 7   | 8   | 9   | 10 | 11  | 12  | 13  | 14  | 15   | 16  | 17  | 18  | 19   | 20   | 21  | 22  | 23  | 24 | 25 | 26 | 27  | 28  | 29   | 30   | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| Belvidere.....                             | Delaware.....   |               |      |     |     | .05  |     |     |     |     |    |     | .15 | .74 |     |      |     |     |     | *    |      |     | .68 |     |    |    |    |     | .85 |      |      |    | 2.47   |
| Charlotteburg.....                         | Passaic.....    |               |      |     |     |      |     | .68 |     |     |    |     | .08 |     | .12 |      |     |     |     | .30  |      |     | .62 |     |    |    |    |     | .42 |      |      |    | 2.22   |
| Culvers Lake.....                          | Delaware.....   |               | 1.30 | .02 |     |      |     |     |     |     |    |     |     | .05 | .02 |      |     |     |     | .45  |      |     | .65 |     |    |    |    |     | .35 | .52  |      |    | 3.86   |
| Dover.....                                 | Passaic.....    |               |      | .03 |     |      |     |     |     |     |    |     | .31 |     | .02 |      |     |     |     | .05  |      |     | .42 |     |    |    |    | .19 | .52 |      |      |    | 1.54   |
| Layton.....                                | Delaware.....   |               | 2.15 |     |     |      |     | T.  | T.  |     |    |     | .02 | .08 | .11 |      |     |     |     | .24  |      |     | .45 |     |    |    |    |     | .86 | .08  |      |    | 3.99   |
| Newton.....                                | Delaware.....   |               | .24  |     |     |      |     |     |     |     |    |     | .11 |     | .03 |      |     |     |     | .28  |      |     | .80 |     |    |    |    |     | .15 | .36  |      |    | 1.97   |
| Phillipsburg.....                          | do.....         |               |      | .25 |     |      |     |     |     |     |    |     | .40 |     |     | T.   |     |     |     | .19  |      |     | .66 |     |    |    |    | .96 | .78 | .35  |      |    | 3.59   |
| Sussex.....                                | Hudson.....     |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| Bergen Point.....                          | Coast.....      |               |      |     | .01 | T.   |     |     |     | T.  |    |     | .01 | .13 |     | .08  |     |     |     | T.   |      |     | .33 |     |    |    |    | T.  | .78 | .28  |      |    | 1.62   |
| Boonton   .....                            | Passaic.....    | T.            |      |     | T.  | T.   |     |     |     |     |    |     |     | .13 |     | .01  |     |     |     |      | .26  |     | .29 |     |    |    |    |     | .15 | .59  |      |    | 1.43   |
| Chatham   .....                            | do.....         |               |      |     | .12 | T.   |     |     |     |     |    |     |     | .13 |     |      |     |     |     |      |      |     | .34 |     |    |    |    |     | .27 | .68  | .03  |    | 1.57   |
| Elizabeth.....                             | Coast.....      | T.            |      |     | .10 | .02  |     |     |     |     |    |     |     | .08 |     | .07  | .02 |     |     |      | T.   |     | .41 | T.  |    |    |    | T.  | .78 | .26  |      |    | 1.74   |
| Flemington.....                            | Raritan.....    | .01           |      |     | .70 |      |     |     |     |     |    |     | .03 | .45 |     | .07  |     |     |     |      | .75  |     | .31 |     |    |    |    | .23 | .24 | .90  | .15  |    | 3.84   |
| Highwood.....                              | Hackensack..... |               |      |     |     |      |     | T.  |     |     |    |     | T.  | .08 |     | T.   | T.  |     |     | .37  |      |     | .31 |     |    |    |    |     | .13 | .67  |      |    | 1.56   |
| Jersey City.....                           | Coast.....      |               |      |     | T.  | T.   |     | .13 |     |     |    |     | .10 |     |     | .05  |     |     |     | T.   |      |     | .30 |     |    |    |    |     | .40 | .28  |      |    | 1.26   |
| Lambertville.....                          | Delaware.....   |               | T.   |     | .13 |      |     |     |     |     |    |     | .17 | .52 |     | .42  |     |     |     | 1.26 |      |     | .38 |     |    |    |    | .04 | .14 | .61  | .05  |    | 3.72   |
| Little Falls   .....                       | Passaic.....    |               |      |     |     |      |     |     | .37 |     |    |     | .09 |     |     |      |     |     |     |      | .07  |     | .17 |     |    |    |    |     | .06 | .45  | .02  |    | 1.23   |
| Newark**.....                              | Coast.....      |               |      | .12 | .18 |      | .22 |     |     |     |    |     | .50 |     | .13 |      |     |     |     | .02  |      |     | .48 |     |    |    |    |     | .34 | .50  | .10  |    | 2.59   |
| New Brunswick.....                         | Raritan.....    |               |      |     | .01 |      |     |     |     |     |    |     | .22 | .28 | .14 |      |     |     |     | T.   |      | .31 |     |     |    |    | T. |     |     | .33  | T.   |    | 1.29   |
| New Milford.....                           | Hackensack..... |               |      |     |     |      |     |     |     |     |    |     | .02 | .02 |     | .02  |     |     |     | .46  |      |     | .28 |     |    |    |    |     | .49 | .08  |      |    | 1.37   |
| Paterson.....                              | Passaic.....    | T.            |      |     |     | T.   |     | .02 | .09 |     |    |     | .03 | .05 | T.  | T.   | T.  |     | .25 |      |      |     | .13 |     |    |    |    |     | .05 | .62  |      |    | 1.24   |
| Plainfield.....                            | Raritan.....    |               |      | .02 |     |      |     |     | T.  |     |    |     | .05 | .04 |     | .07  |     |     |     | .05  |      |     | .35 |     |    |    |    | .04 | .54 | .55  | .01  |    | 1.72   |
| Somerville.....                            | Raritan.....    |               |      |     | T.  |      |     |     |     |     |    |     | .05 | .33 |     |      |     |     |     | .12  |      |     | .04 |     |    |    |    | .10 | .14 | .58  | .22  |    | 1.58   |
| South Orange.....                          | Rahway.....     |               |      | .03 | .14 |      |     |     |     |     |    |     | .18 |     |     |      |     |     |     |      |      |     |     |     |    |    |    | *   | .53 |      |      |    | \$     |
| Woodcliffe Lake.....                       | Hackensack..... |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     | 1.45 |      |     | .23 |     |    |    |    |     | .55 | .05  |      |    | 1.28   |
| New York, N. Y***                          | Coast.....      |               |      |     | T.  | T.   |     | .02 |     |     |    |     | .15 |     |     | .06  |     |     |     | T.   |      |     | .24 |     |    |    |    | .40 | .08 | .17  |      |    | 1.12   |
| <i>The Southern Interior.</i>              |                 |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| Belle Plain.....                           | Tuckahoe.....   | T.            | .12  |     | .24 | .08  | .01 |     | .27 |     |    |     |     |     |     |      |     | .10 | .05 |      | .34  |     | .09 |     |    |    |    |     | *   | .55  |      |    | 1.85   |
| Bridgeton.....                             | Coast.....      |               | .05  | T.  | .37 | 3.10 |     | .21 |     |     |    |     |     |     |     |      | .15 |     | .10 |      |      |     | .13 |     |    |    |    |     | .55 | .15  |      |    | 4.81   |
| Burlington.....                            | Delaware.....   | T.            |      |     | .79 | .75  |     |     |     |     |    |     | .31 | .25 |     | .12  |     |     |     |      |      | .12 |     | .38 |    |    |    |     |     | .04  | 1.10 |    | 3.86   |
| Camp Dix   .....                           | Delaware.....   |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| Hammonton.....                             | Mullica.....    |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| Hightstown.....                            | Raritan.....    | .03           |      |     | .48 | .12  |     |     |     |     |    |     | .20 | .53 |     | .40  |     |     |     |      |      | .50 |     | .48 |    |    |    |     | T.  | T.   | .98  |    | 3.72   |
| Imlaystown.....                            | Delaware.....   | T.            |      |     |     | .70  |     |     |     |     |    |     | .47 | .29 |     | .14  |     |     |     |      |      | .65 |     | .30 |    |    |    |     |     |      | .89  |    | 3.44   |
| Indian Mills.....                          | Mullica.....    | T.            |      |     | .68 | .26  |     |     |     |     |    |     | .49 |     |     |      |     |     |     |      |      | .66 |     | .05 |    |    |    |     | T.  | .69  |      |    | 2.83   |
| Lakewood.....                              | Metedeconk..... | .05           |      |     | .03 | .14  |     |     |     |     |    |     | .45 | .20 |     | .12  |     |     |     |      |      | .25 |     | .18 |    |    |    |     |     | 1.70 |      |    | 3.12   |
| Lumberton.....                             | Delaware.....   |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| Moorestown.....                            | Delaware.....   |               | 1.00 |     | .11 | .37  |     |     |     |     |    |     | .11 |     |     |      |     |     |     |      | .27  |     | .30 |     |    |    |    |     |     |      | 1.16 |    | 3.32   |
| Northfield.....                            | Coast.....      |               | .26  |     | .08 | .12  |     |     |     |     |    |     |     |     |     |      |     | .04 |     |      |      | .46 |     | .13 |    |    |    |     | T.  | .43  |      |    | 1.52   |
| Pleasantville.....                         | Coast.....      |               | .22  |     | .03 | .88  |     |     | T.  |     |    |     | T.  |     |     |      |     | .03 |     |      |      | .50 |     | .15 |    |    |    |     | T.  | .29  |      |    | 2.10   |
| Trenton***.....                            | Delaware.....   |               |      | T.  | .38 |      |     |     |     |     |    |     | .35 |     | .42 |      |     | .03 |     |      | 1.47 |     | .34 |     |    |    |    |     | .02 | .21  | .13  |    | 3.32   |
| Tuckerton.....                             | Coast.....      |               |      |     |     | .33  |     |     |     |     |    |     | .32 |     |     |      |     |     |     |      | .18  |     | T.  |     |    |    |    |     |     |      | .87  |    | 1.70   |
| Vineland.....                              | Maurice.....    | .02           |      |     | .27 | .64  |     |     |     |     |    |     |     |     |     |      |     | .05 |     |      |      | .62 |     | *   |    |    |    |     | .11 |      | .73  |    | 2.44   |
| Philadelphia, Pa.....                      | Delaware.....   | T.            |      | .53 | .17 | 1.15 |     |     |     |     |    |     | .32 |     |     |      |     | .01 |     |      | .35  |     | .15 |     |    |    |    |     | .06 | .94  | .58  |    | 4.26   |
| <i>The Sea Coast.</i>                      |                 |               |      |     |     |      |     |     |     |     |    |     |     |     |     |      |     |     |     |      |      |     |     |     |    |    |    |     |     |      |      |    |        |
| Asbury Park.....                           | Coast.....      | .02           |      |     | T.  | T.   |     |     |     |     |    |     | .46 | .07 |     | 1.31 |     |     |     | .05  |      |     | .15 |     |    |    |    | T.  | T.  | 1.26 |      |    | 3.32   |
| Atlantic City***.....                      | do.....         | T.            | .17  |     | .05 | .17  |     | T.  | T.  |     |    |     | T.  |     |     |      |     | .01 |     |      | .37  | .02 |     | .06 |    |    |    | T.  | T.  | .42  |      |    | 1.27   |
| Cape May City.....                         | do.....         |               | .01  | .02 |     | .82  | T.  |     |     | .02 |    | .38 | .01 |     |     |      |     | .15 | .04 |      |      | .36 |     | .19 |    |    |    |     | .55 | .01  | 1.66 |    | 4.02   |
| Long Branch**.....                         | do.....         | T.            | .02  | T.  | .01 | T.   |     |     |     |     |    |     | .95 |     |     | .73  |     |     |     | .06  |      | .01 |     | .29 |    |    |    |     | .06 | .05  | 1.12 |    | 3.24   |
| Sandy Hook***.....                         | do.....         | T.            |      |     |     |      |     | T.  |     |     |    |     | .28 |     |     | .10  |     |     |     |      |      |     | .25 |     |    |    |    |     | .28 | .08  | .97  |    | 1.96   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine                       |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity.<br>per cent. at 8 a. m. | Relative humidity.<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |                                     |
| Atlantic City.....    | 29.99         | 30.20    | 31    | 29.65   | 13    | 14               | 44              | nw.        | 22    | 80                                         | 72                                         | 63                                  |
| Cape May City.....    | 30.03         | 30.22    | 31    | 29.74   | 12    | 7                | 24              | sw.        | 21    | 86                                         | 84                                         | .....                               |
| Long Branch.....      |               |          |       |         |       |                  | 37              | s.         | 21    |                                            |                                            |                                     |
| Newark.....           |               |          |       |         |       |                  |                 |            |       | 77*                                        | 71†                                        | 72                                  |
| New York, N. Y.....   | 29.98         | 30.19    | 31    | 29.61   | 22    | 14               | 58              | nw.        | 22    | 75                                         | 72                                         | 79                                  |
| Philadelphia, Pa..... | 30.00         | 30.20    | 31    | 29.65   | 22    | 8                | 29              | n.         | 22    | 73                                         | 67                                         | 60                                  |
| Sandy Hook.....       | 29.98         | 30.20    | 31    | 29.59   | 22    | 13               | 44              | nw.        | 22    | 77                                         | 77                                         | 75                                  |
| Trenton.....          | 29.98         | 30.20    | 31    | 29.63   | 22    | 9                | 35              | nw.        | 22    | 76                                         | 71                                         | 76                                  |

\* 7 a. m. † 9 p. m.



## Daily Temperatures for August, 1923.

| Stations.                                   | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean.             |                   |                   |
|---------------------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| <i>The Highlands and Kittatinny Valley.</i> |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                              | Maximum... | 77 | 82 | 88 | 88 | 84 | 88 | 86 | 82 | 79 | 85 | 83 | 80 | 79 | 79 | 86 | 75 | 78 | 79 | 81 | 80 | 83 | 75 | 71 | 75 | 78 | 76 | 76 | 78 | 77 | 80 | 84                | 80.4              |                   |
|                                             | Minimum... | 58 | 65 | 69 | 70 | 60 | 66 | 59 | 54 | 55 | 55 | 62 | 61 | 48 | 64 | 53 | 54 | 50 | 51 | 50 | 47 | 52 | 42 | 42 | 45 | 52 | 46 | 52 | 64 | 65 | 55 | 56                | 56.0 <sup>a</sup> |                   |
| Charlotteburg.....                          | Maximum... | 74 | 85 | 91 | 91 | 91 | 88 | 90 | 82 | 87 | 87 | 82 | 77 | 82 | 78 | 73 | 80 | 80 | 84 | 77 | 83 | 69 | 72 | 76 | 78 | 79 | 75 | 80 | 79 | 82 | 85 | 81                | 81.3              |                   |
|                                             | Minimum... | 58 | 57 | 59 | 66 | 60 | 56 | 63 | 52 | 54 | 45 | 56 | 61 | 64 | 41 | 56 | 44 | 40 | 44 | 42 | 50 | 40 | 51 | 41 | 35 | 44 | 39 | 43 | 64 | 63 | 50 | 46                | 51.1              |                   |
| Dover.....                                  | Maximum... | 71 | 87 | 91 | 93 | 87 | 87 | 90 | 85 | 84 | 90 | 88 | 83 | 80 | 82 | 87 | 72 | 79 | 81 | 85 | 84 | 86 | 77 | 80 | 81 | 81 | 76 | 81 | 79 | 86 | 86 | 83.3 <sup>a</sup> |                   |                   |
|                                             | Minimum... | 59 | 58 | 66 | 70 | 58 | 66 | 57 | 54 | 53 | 62 | 68 | 57 | 47 | 65 | 50 | 51 | 46 | 49 | 53 | 46 | 53 | 41 | 45 | 45 | 45 | 48 | 65 | 66 | 53 | 52 | 55.6 <sup>b</sup> |                   |                   |
| Layton.....                                 | Maximum... | 75 | 85 | 90 | 92 | 90 | 89 | 92 | 80 | 83 | 88 | 90 | 82 | 78 | 80 | 80 | 72 | 79 | 82 | 82 | 78 | 84 | 79 | 73 | 75 | 76 | 79 | 76 | 79 | 82 | 83 | 85                | 81.9              |                   |
|                                             | Minimum... | 60 | 60 | 62 | 66 | 68 | 59 | 66 | 55 | 47 | 47 | 59 | 55 | 63 | 43 | 60 | 48 | 46 | 48 | 45 | 43 | 50 | 38 | 38 | 48 | 41 | 44 | 65 | 62 | 51 | 51 | 52.7              |                   |                   |
| Newton.....                                 | Maximum... | 72 | 78 | 91 | 89 | 88 | 86 | 89 | 89 | 90 | 89 | 88 | 86 | 85 | 82 | 85 | 78 | 78 | 85 | 83 | 83 | 85 | 83 | 73 | 78 | 79 | 82 | 79 | 83 | 79 | 84 | 91                | 83.5              |                   |
|                                             | Minimum... | 60 | 60 | 72 | 68 | 60 | 68 | 65 | 61 | 60 | 54 | 63 | 68 | 65 | 48 | 64 | 49 | 52 | 48 | 50 | 52 | 56 | 52 | 42 | 45 | 55 | 48 | 50 | 65 | 66 | 54 | 58                | 57.4              |                   |
| Phillipsburg.....                           | Maximum... | 68 | 85 | 91 | 91 | 90 | 90 | 91 | 86 | 84 | 87 | 87 | 84 | 86 | 82 | 89 | 77 | 78 | 82 | 88 | 81 | 88 | 74 | 78 | 84 | 82 | 78 | 80 | 79 | 84 | 87 | 83.7              |                   |                   |
|                                             | Minimum... | 61 | 59 | 64 | 70 | 70 | 63 | 66 | 61 | 57 | 55 | 63 | 70 | 56 | 49 | 62 | 54 | 57 | 54 | 52 | 55 | 51 | 51 | 45 | 45 | 53 | 47 | 55 | 66 | 67 | 58 | 54                | 57.7              |                   |
| Sussex.....                                 | Maximum... |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
|                                             | Minimum... |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| <i>The Red Sandstone Plain.</i>             |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                           | Maximum... | 67 | 81 | 91 | 91 | 89 | 83 | 88 | 86 | 77 | 86 | 86 | 85 | 80 | 81 | 87 | 75 | 76 | 76 | 79 | 86 | 79 | 75 | 76 | 81 | 76 | 76 | 80 | 79 | 81 | 84 | 81.4              |                   |                   |
|                                             | Minimum... | 60 | 61 | 69 | 70 | 72 | 69 | 69 | 65 | 63 | 59 | 65 | 70 | 67 | 65 | 67 | 60 | 59 | 55 | 67 | 59 | 59 | 53 | 50 | 55 | 59 | 57 | 59 | 67 | 68 | 59 | 61                | 62.5              |                   |
| Boonton§§.....                              | Maximum... | 73 | 83 | 88 | 93 | 89 | 88 | 89 | 85 | 82 | 85 | 85 | 82 | 79 | 79 | 85 | 73 | 80 | 82 | 78 | 83 | 69 | 72 | 77 | 78 | 77 | 77 | 77 | 77 | 77 | 84 | 80                | 85.8 <sup>a</sup> |                   |
|                                             | Minimum... | 58 | 58 | 62 | 67 | 68 | 60 | 63 | 56 | 52 | 47 | 57 | 65 | 65 | 44 | 57 | 47 | 47 | 42 | 45 | 49 | 45 | 54 | 38 | 39 | 46 | 40 | 45 | 51 | 65 | 52 | 50                | 52.7              |                   |
| Elizabeth.....                              | Maximum... | 69 | 86 | 93 | 91 | 90 | 92 | 92 | 92 | 87 | 89 | 87 | 87 | 81 | 85 | 92 | 84 | 81 | 80 | 86 | 85 | 89 | 90 | 77 | 81 | 84 | 81 | 81 | 81 | 85 | 81 | 86                | 87                | 85.7 <sup>a</sup> |
|                                             | Minimum... | 61 | 60 | 68 | 71 | 71 | 64 | 68 | 63 | 59 | 55 | 63 | 68 | 64 | 50 | 64 | 55 | 57 | 50 | 59 | 56 | 56 | 54 | 43 | 46 | 53 | 51 | 53 | 67 | 67 | 58 | 57                | 59.1              |                   |
| Flemington.....                             | Maximum... | 68 | 86 | 89 | 89 | 90 | 85 | 92 | 85 | 85 | 86 | 85 | 85 | 82 | 81 | 89 | 79 | 75 | 82 | 85 | 82 | 86 | 82 | 75 | 78 | 83 | 82 | 80 | 81 | 80 | 87 | 87                | 83.3              |                   |
|                                             | Minimum... | 60 | 60 | 67 | 71 | 71 | 64 | 68 | 64 | 59 | 55 | 65 | 70 | 66 | 50 | 65 | 55 | 57 | 52 | 50 | 57 | 53 | 53 | 44 | 46 | 53 | 47 | 54 | 65 | 65 | 59 | 57                | 58.8              |                   |
| Highwood.....                               | Maximum... | 70 | 84 | 89 | 89 | 87 | 82 | 88 | 86 | 81 | 87 | 87 | 83 | 81 | 82 | 87 | 73 | 76 | 80 | 83 | 80 | 81 | 79 | 71 | 74 | 81 | 78 | 77 | 81 | 78 | 80 | 83                | 81.2              |                   |
|                                             | Minimum... | 61 | 60 | 69 | 70 | 72 | 61 | 67 | 60 | 54 | 51 | 63 | 70 | 62 | 47 | 66 | 53 | 50 | 45 | 49 | 55 | 51 | 54 | 41 | 44 | 56 | 45 | 50 | 67 | 67 | 55 | 55                | 57.1              |                   |
| Jersey City.....                            | Maximum... | 68 | 83 | 90 | 90 | 91 | 86 | 89 | 85 | 80 | 87 | 87 | 82 | 80 | 78 | 85 | 74 | 75 | 78 | 82 | 80 | 80 | 79 | 74 | 75 | 81 | 80 | 78 | 82 | 80 | 86 | 84                | 81.6              |                   |
|                                             | Minimum... | 60 | 61 | 69 | 70 | 74 | 67 | 67 | 74 | 64 | 64 | 67 | 69 | 64 | 61 | 65 | 64 | 61 | 61 | 62 | 63 | 61 | 53 | 53 | 56 | 60 | 60 | 62 | 67 | 67 | 63 | 65                | 63.7              |                   |
| Lambertville.....                           | Maximum... | 57 | 59 | 90 | 90 | 86 | 86 | 88 | 84 | 82 | 86 | 84 | 82 | 79 | 81 | 85 | 75 | 74 | 78 | 83 | 79 | 83 | 78 | 71 | 76 | 78 | 79 | 77 | 77 | 77 | 77 | 83                | 84                |                   |
|                                             | Minimum... | 57 | 59 | 90 | 90 | 86 | 86 | 88 | 84 | 82 | 86 | 84 | 82 | 79 | 81 | 85 | 75 | 74 | 78 | 83 | 79 | 83 | 78 | 71 | 76 | 78 | 79 | 77 | 77 | 77 | 77 | 83                | 84                |                   |
| Little Falls§§.....                         | Maximum... | 73 | 87 | 92 | 98 | 90 | 88 | 90 | 86 | 82 | 89 | 90 | 85 | 80 | 82 | 88 | 74 | 80 | 82 | 85 | 83 | 90 | 80 | 78 | 81 | 85 | 84 | 80 | 85 | 82 | 90 | 91                | 84.8              |                   |
|                                             | Minimum... | 60 | 61 | 67 | 70 | 71 | 60 | 67 | 69 | 54 | 54 | 62 | 69 | 66 | 48 | 62 | 52 | 51 | 46 | 50 | 53 | 49 | 55 | 41 | 43 | 51 | 40 | 50 | 56 | 68 | 55 | 54                | 56.5              |                   |
| Newark.....                                 | Maximum... | 66 | 81 | 90 | 92 | 89 | 86 | 89 | 87 | 81 | 88 | 88 | 85 | 80 | 80 | 88 | 72 | 75 | 78 | 85 | 83 | 88 | 81 | 77 | 78 | 81 | 80 | 77 | 81 | 84 | 88 | 86                | 82.7              |                   |
|                                             | Minimum... | 59 | 61 | 69 | 72 | 73 | 69 | 69 | 62 | 61 | 66 | 70 | 62 | 59 | 66 | 60 | 59 | 57 | 57 | 62 | 60 | 56 | 53 | 56 | 50 | 56 | 59 | 67 | 68 | 65 | 64 | 62.5              |                   |                   |
| New Brunswick.....                          | Maximum... | 68 | 83 | 89 | 91 | 90 | 85 | 83 | 93 | 85 | 88 | 89 | 84 | 80 | 82 | 87 | 80 | 73 | 78 | 84 | 83 | 87 | 88 | 76 | 78 | 81 | 78 | 78 | 86 | 81 | 86 | 85                | 83.2              |                   |
|                                             | Minimum... | 60 | 61 | 69 | 71 | 73 | 56 | 60 | 65 | 59 | 55 | 63 | 69 | 65 | 51 | 65 | 57 | 57 | 51 | 50 | 60 | 56 | 51 | 45 | 45 | 48 | 50 | 54 | 65 | 68 | 56 | 58                | 58.5              |                   |
| Paterson.....                               | Maximum... | 74 | 89 | 93 | 95 | 91 | 89 | 92 | 90 | 85 | 90 | 91 | 86 | 84 | 86 | 92 | 80 | 81 | 83 | 89 | 84 | 89 | 84 | 79 | 80 | 84 | 80 | 82 | 80 | 85 | 88 | 85                | 85.7              |                   |
|                                             | Minimum... | 61 | 63 | 69 | 72 | 73 | 64 | 68 | 66 | 58 | 57 | 65 | 70 | 66 | 55 | 67 | 55 | 55 | 51 | 53 | 56 | 55 | 56 | 47 | 49 | 55 | 50 | 54 | 67 | 69 | 58 | 58                | 60.1              |                   |
| Plainfield.....                             | Maximum... | 68 | 84 | 91 | 91 | 90 | 85 | 88 | 85 | 80 | 88 | 88 | 83 | 80 | 79 | 86 | 74 | 76 | 78 | 83 | 80 | 82 | 79 | 74 | 77 | 82 | 81 | 78 | 83 | 80 | 86 | 86                | 82.1              |                   |
|                                             | Minimum... | 60 | 61 | 67 | 68 | 70 | 64 | 66 | 59 | 55 | 51 | 60 | 60 | 58 | 56 | 60 | 57 | 55 | 56 | 56 | 57 | 56 | 48 | 41 | 49 | 54 | 50 | 48 | 66 | 66 | 56 | 53                | 57.5              |                   |
| Somerville.....                             | Maximum... | 70 | 88 | 92 | 93 | 91 | 86 | 90 | 89 | 84 | 89 | 88 | 85 | 83 | 82 | 89 | 78 | 78 | 80 | 85 | 83 | 86 | 83 | 80 | 83 | 83 | 81 | 84 | 86 | 82 | 86 | 87                | 84.6 <sup>a</sup> |                   |
|                                             | Minimum... | 61 | 61 | 65 | 71 | 70 | 65 | 68 | 60 | 59 | 52 | 61 | 68 | 60 | 48 | 64 | 53 | 55 | 49 | 47 | 54 | 50 | 54 | 40 | 41 | 51 | 42 | 50 | 65 | 67 | 58 | 54                | 56.9              |                   |
| South Orange.....                           | Maximum... | 69 | 83 | 88 | 88 | 86 | 83 | 87 | 84 | 77 | 84 | 84 | 83 | 78 | 78 | 83 | 71 | 73 | 75 | 75 | 75 | 75 | 75 | 75 | 76 | 78 | 80 | 79 | 80 | 78 | 81 | 80                | 80.4 <sup>a</sup> |                   |
|                                             | Minimum... | 61 | 60 | 68 | 72 | 72 | 68 | 64 | 60 | 60 | 64 | 60 | 60 | 55 | 65 | 57 | 55 | 51 | 51 | 51 | 51 | 51 | 44 | 44 | 51 | 51 | 55 | 61 | 63 | 64 | 68 | 69                | 61.4 <sup>a</sup> |                   |
| New York, N. Y.....                         | Maximum... | 67 | 79 | 87 | 88 | 89 | 84 | 84 | 84 | 77 | 83 | 83 | 81 | 78 | 77 | 84 | 71 | 72 | 75 | 80 | 77 | 79 | 78 | 71 | 73 | 78 | 75 | 73 | 76 | 76 | 80 | 78.7              |                   |                   |
|                                             | Minimum... | 60 | 62 | 69 | 71 | 74 | 67 | 76 | 65 | 64 | 67 | 69 | 64 | 61 | 66 | 63 | 62 | 61 | 62 | 63 | 61 | 53 | 53 | 56 | 60 | 60 | 63 |    |    |    |    |                   |                   |                   |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXIX. JANUARY, 1924. No. 1.

### GENERAL SUMMARY.

The year 1924 opened with mostly pleasant winter weather, temperatures averaging appreciably above normal, and with practically no snow. Sunshine was in excess of normal, and ice in ponds was too thin for harvest. Practically the entire rainfall, and what little snow that did fall, occurred in four storms of about an inch or more each, and this comprised the inclement weather of the month. Warmth was notably subnormal on the 5th, 6th, 21st, 22d, 26th and 27th, while there were many days with mean temperatures above 40°. Subzero temperatures occurred only on two days in the extreme northern highlands. The weather was so generally open and favorable, that much out door work on farming and construction projects was carried on with a minimum of interruption. Wind of storm force occurred frequently, and there were some five days when velocities were 50 miles per hour, or more, for brief periods in various localities. The highest velocity, 80 miles per hour, for five minutes, at Atlantic City, occurs but rarely.

Storm warnings were displayed along the coast on the 5th, 6th, 10th, 13th, 16th, 19th, 20th, and from the 22d to 26th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 32.2°, which was 2.2° above the normal. The highest temperature was 65° at Little Falls on the 11th, and the lowest, 6° below zero at Culvers Lake on the 27th. The greatest daily range was 44° at Boonton on the 10th. The highest monthly mean was 35.6° at Cape May City and the lowest, 27.9° at Layton.

The temperature departure from the normal for the year 1924 to date, by sections, is: The Highlands, +2.2°; Red Sandstone Plain, +2.2°; Southern Interior, +2.0°; Sea Coast, +2.1°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 4.48 inches, which was 0.83 inch above the normal. The greatest monthly precipitation was 5.69 inches at Charlotteburg and the least, 2.88 inches at Sussex. The average total snowfall was 1.4 inches, which was 7.5 inches below the normal; this average ranged from 2.4 inches in the Highlands to a trace along the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 2.09 inches at Charlotteburg on the 16th. The average number of days on which .01 inch or more of precipitation fell was 8, which was 3 less than the normal.

The precipitation accumulated departure from the normal for the year 1924 to date, by sections, is: The Highlands, +0.68 inch; Red Sandstone Plain, + 0.98 inch; Southern Interior, +0.90 inch; Sea Coast, +0.50 inch.

### WIND.

The prevailing wind direction was from the northwest, which was normal. The wind movement was 16 miles per hour, which was 2 miles above the normal. The highest velocity, sustained for 5 consecutive minutes, was 80 miles per hour from the southeast at Atlantic City on the 16th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was five more than the normal; partly cloudy, 8 or 1 less than the normal; cloudy, 8, or 4 less than the normal. The per cent of possible sunshine was 61, which was 11 per cent above the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.20 inches, which was 0.09 inch above the normal. The highest reading was 30.83 inches at Sandy Hook on the 2d, and the lowest, 29.36 inches at Sandy Hook on the 11th.

The mean stage of the Delaware River at Phillipsburg was 5.2 feet, and the highest 12.0 feet on the 12th. At Trenton the mean daily stage was 4.1 feet, which was 0.6 feet above the normal. The highest stage was 8.0 feet on the 13th, and the lowest, 1.8 feet on the 11th.

Dense fog occurred on the 1st and 11th. Sleet was reported on the 2d and the 24th. Solar halos were observed on the 10th, 13th, 19th, 22d, 25th, 28th, and 30th. Lunas halos were observed on the 15th, 17th, and 19th. No thunderstorms were reported.

### COMPARATIVE DATA FOR JANUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.8         | 67       | 0       | 4.08           | 5.41      | 3.33   | .....        | .....          | .....   | .....                  |
| 1886..... | 27.3         | 60       | -10     | 4.47           | 5.59      | 3.08   | .....        | .....          | .....   | .....                  |
| 1887..... | 28.4         | 67       | -6      | 3.86           | 6.65      | 2.00   | .....        | .....          | 12      | 10                     |
| 1888..... | 25.4         | 59       | -12     | 4.77           | 6.74      | 2.80   | .....        | .....          | 12      | 9                      |
| 1889..... | 36.2         | 60       | 8       | 5.68           | 8.78      | 3.84   | .....        | .....          | 9       | 9                      |
| 1890..... | 41.3         | 78       | 12      | 2.29           | 3.22      | 1.05   | .....        | .....          | 11      | 10                     |
| 1891..... | 34.2         | 59       | 10      | 6.57           | 10.55     | 4.41   | 10           | 11             | 10      | 10                     |
| 1892..... | 29.9         | 67       | -6      | 5.13           | 7.05      | 2.50   | 10           | 9              | 12      | 10                     |
| 1893..... | 21.6         | 54       | -21     | 3.04           | 4.56      | 1.87   | 10           | 10             | 11      | 9                      |
| 1894..... | 34.2         | 61       | -4      | 2.34           | 3.80      | 1.18   | 10           | 8              | 13      | 11                     |
| 1895..... | 28.1         | 64       | -4      | 4.66           | 5.80      | 2.48   | 10           | 10             | 11      | 11                     |
| 1896..... | 28.6         | 61       | -7      | 1.66           | 2.87      | 0.68   | 12           | 10             | 9       | 5                      |
| 1897..... | 29.0         | 64       | -6      | 2.80           | 4.21      | 1.70   | 11           | 8              | 12      | 9                      |
| 1898..... | 32.6         | 64       | -10     | 4.20           | 5.90      | 2.79   | 9            | 11             | 11      | 11                     |
| 1899..... | 30.1         | 60       | -21     | 4.01           | 5.73      | 2.40   | 13           | 8              | 10      | 11                     |
| 1900..... | 32.4         | 64       | -5      | 3.85           | 5.50      | 2.37   | 11           | 11             | 9       | 10                     |
| 1901..... | 30.4         | 63       | -6      | 2.52           | 4.00      | 1.35   | 11           | 11             | 9       | 9                      |
| 1902..... | 28.4         | 58       | -5      | 3.28           | 4.35      | 2.52   | 12           | 9              | 10      | 10                     |
| 1903..... | 30.4         | 57       | -5      | 3.90           | 5.04      | 2.31   | 10           | 10             | 11      | 10                     |
| 1904..... | 23.3         | 58       | -34     | 3.09           | 4.67      | 1.34   | 13           | 7              | 11      | 10                     |
| 1905..... | 27.0         | 60       | -16     | 4.18           | 7.13      | 2.68   | 12           | 9              | 10      | 9                      |
| 1906..... | 36.5         | 74       | -5      | 2.85           | 3.86      | 2.08   | 11           | 9              | 11      | 11                     |
| 1907..... | 31.8         | 71       | -19     | 3.50           | 5.80      | 1.93   | 8            | 9              | 14      | 14                     |
| 1908..... | 31.8         | 60       | -6      | 3.74           | 5.22      | 2.29   | 12           | 11             | 8       | 9                      |
| 1909..... | 33.2         | 69       | -12     | 3.18           | 4.13      | 2.18   | 8            | 9              | 14      | 12                     |
| 1910..... | 29.7         | 54       | -15     | 5.04           | 6.65      | 3.66   | 8            | 8              | 15      | 15                     |
| 1911..... | 33.5         | 63       | 0       | 3.44           | 5.34      | 1.97   | 10           | 7              | 14      | 14                     |
| 1912..... | 22.3         | 58       | -32     | 2.82           | 4.62      | 1.73   | 8            | 12             | 11      | 13                     |
| 1913..... | 35.9         | 68       | 10      | 3.58           | 4.71      | 2.63   | 11           | 7              | 13      | 14                     |
| 1914..... | 31.9         | 73       | -12     | 3.85           | 6.15      | 1.95   | 9            | 8              | 14      | 9                      |
| 1915..... | 33.5         | 61       | 3       | 6.55           | 8.92      | 4.40   | 11           | 6              | 14      | 12                     |
| 1916..... | 35.1         | 74       | -2      | 1.60           | 2.96      | 0.92   | 11           | 8              | 12      | 11                     |
| 1917..... | 31.4         | 58       | 0       | 3.26           | 4.52      | 2.35   | 10           | 8              | 13      | 13                     |
| 1918..... | 20.8         | 56       | -16     | 4.14           | 6.14      | 2.78   | 12           | 8              | 11      | 11                     |
| 1919..... | 34.1         | 62       | -7      | 3.51           | 4.44      | 2.24   | 14           | 7              | 10      | 8                      |
| 1920..... | 23.6         | 53       | -10     | 2.60           | 3.53      | 1.61   | 11           | 7              | 13      | 11                     |
| 1921..... | 33.0         | 63       | -5      | 2.63           | 3.49      | 1.78   | 13           | 8              | 10      | 9                      |
| 1922..... | 27.6         | 57       | -11     | 2.62           | 4.13      | 1.08   | 15           | 6              | 10      | 8                      |
| 1923..... | 30.1         | 66       | -14     | 5.22           | 7.26      | 3.41   | 9            | 7              | 15      | 12                     |
| 1924..... | 32.2         | 65       | -6      | 4.48           | 5.69      | 2.88   | 15           | 8              | 8       | 8                      |



## Climatological Data for January, 1924.

| Stations.                                   | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |          |                 |         |                 | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |        | Prevailing direc-<br>tion of wind. | Observers |             |                             |
|---------------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|----------|-----------------|---------|-----------------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|------------------------------------|-----------|-------------|-----------------------------|
|                                             |                 |                  |                          | Mean.                         | Departure from the normal. | Highest. | Date.           | Lowest. | Date.           | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear. |                                    |           | Pt. cloudy. | Cloudy.                     |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                  |                          |                               |                            |          |                 |         |                 |                           |        |                            |                       |                            |                                |        |                                    |           |             |                             |
| Belvidere.....                              | Warren.....     | 289              | 33                       | 29.1 <sup>f</sup>             | +1.8                       | 52       | 11 <sup>†</sup> | 1       | 22              | 30                        | 4.41   | +0.87                      | 1.80                  | .....                      | 6                              | 15     | 12                                 | 4         | .....       | Miss C. S. Hixson.          |
| Charlotteburg.....                          | Passaic.....    | 719              | 32                       | 28.8 <sup>s</sup>             | +1.9                       | 60       | 11              | -1      | 22 <sup>†</sup> | 42                        | 5.69   | +2.14                      | 2.09                  | 3.0                        | 6                              | .....  | .....                              | .....     | w.          | Newark Water Dept.          |
| Culvers Lake <sup>††</sup> .....            | Sussex.....     | 848              | 23                       | .....                         | .....                      | .....    | .....           | -6      | 27              | .....                     | 4.06   | +0.88                      | 1.80                  | 4.5                        | 6                              | 13     | 7                                  | 11        | w.          | Brice E. Riker.             |
| Dover.....                                  | Morris.....     | 600              | 40                       | 28.2                          | +1.6                       | 60       | 11              | 1       | 22 <sup>†</sup> | 34                        | 5.57   | +1.18                      | 2.05                  | 1.5                        | 5                              | 12     | 16                                 | 3         | .....       | William C. Harris.          |
| Layton.....                                 | Sussex.....     | 480              | 23                       | 27.9                          | +3.2                       | 62       | 11              | -4      | 27              | 36                        | 3.34   | +0.45                      | 1.32                  | 2.0                        | 5                              | 13     | 4                                  | 14        | sw.         | A. M. Depue.                |
| Newton.....                                 | Sussex.....     | 769              | 41                       | 28.4                          | +2.7                       | 60       | 11              | -3      | 22              | 35                        | 3.77   | +0.16                      | 1.10                  | 2.0                        | 5                              | 12     | 6                                  | 13        | nw.         | Irving J. Kern.             |
| Phillipsburg.....                           | Warren.....     | 363              | 41                       | 29.4 <sup>b</sup>             | +1.3                       | 54       | 11              | 4       | 22              | 26                        | 3.95   | +0.35                      | 1.29                  | 1.0                        | 5                              | 18     | 7                                  | 6         | .....       | Town Engineer.              |
| Sussex.....                                 | Sussex.....     | 442              | 30                       | 29.2                          | +2.6                       | 60       | 11              | 0       | 21 <sup>†</sup> | 33                        | 2.88   | -0.60                      | 0.97                  | 2.7                        | 6                              | 13     | 11                                 | 7         | .....       | .....                       |
| Means and extremes...                       |                 |                  |                          | 28.7                          | +2.2                       | 62       | 11              | -6      | 27              | 42                        | 4.21   | +0.68                      | 2.09                  | 2.4                        | 6                              | 14     | 9                                  | 8         | w.          |                             |
| <i>The Red Sandstone Plain.</i>             |                 |                  |                          |                               |                            |          |                 |         |                 |                           |        |                            |                       |                            |                                |        |                                    |           |             |                             |
| Bergen Point <sup>††</sup> .....            | Hudson.....     | 37               | 27                       | 34.4 <sup>b</sup>             | +3.7                       | 61       | 11              | 5       | 22              | 33                        | 4.46   | +0.57                      | 1.27                  | 0.5                        | 5                              | 6      | 18                                 | 7         | nw.         | William H. Mitchell.        |
| Boonton.....                                | Morris.....     | 400              | 34                       | 28.0                          | +0.7                       | 61       | 10 <sup>†</sup> | 2       | 22 <sup>†</sup> | 44                        | 3.72   | -0.11                      | 1.12                  | .....                      | 7                              | 17     | 3                                  | 11        | nw.         | John Kline.                 |
| Chatham.....                                | Morris.....     | 185              | 20                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                     | 5.58   | +1.89                      | 1.75                  | 4.0                        | 7                              | 21     | 7                                  | 3         | .....       | Paul Molitor, Sr.           |
| Elizabeth.....                              | Union.....      | 45               | 45                       | 33.0                          | +2.8                       | 61       | 11              | 4       | 22              | 31                        | 5.09   | +1.05                      | 1.40                  | 1.5                        | 7                              | 15     | 9                                  | 7         | nw.         | L. B. Bonnett.              |
| Flemington.....                             | Hunterdon.....  | 140              | 38                       | 32.4                          | +2.6                       | 61       | 11              | 3       | 22              | 32                        | 4.25   | +0.56                      | 1.26                  | 1.0                        | 7                              | 17     | 6                                  | 8         | nw.         | Hiram E. Deats.             |
| Highwood <sup>††</sup> .....                | Bergen.....     | 90               | 36                       | 30.6                          | +1.8                       | 57       | 11              | 4       | 22 <sup>†</sup> | 34                        | 4.84   | +0.89                      | 1.82                  | 2.0                        | 6                              | 14     | 7                                  | 10        | nw.         | Charles J. Bates.           |
| Jersey City.....                            | Hudson.....     | 10               | 26                       | 33.4                          | +1.2                       | 58       | 11              | 5       | 22              | 30                        | 4.26   | +0.76                      | 1.30                  | 2.5                        | 7                              | 14     | 9                                  | 8         | nw.         | S. K. Pearson, Jr.          |
| Lambertville.....                           | Hunterdon.....  | 370              | 37                       | 31.0                          | +0.5                       | 59       | 11              | 1       | 22              | 32                        | 5.17   | +1.52                      | 1.48                  | 1.0                        | 7                              | 15     | 7                                  | 9         | w.          | Wm. J. Lauderdale.          |
| Little Falls.....                           | Passaic.....    | 180              | 21                       | 30.4                          | +2.4                       | 65       | 11              | 4       | 22              | 42                        | 4.86   | +1.16                      | 1.67                  | 3.5                        | 7                              | 19     | 6                                  | 6         | nw.         | Passaic Consolid. Water Co. |
| Newark.....                                 | Essex.....      | 159              | 82                       | 32.5                          | +2.7                       | 57       | 11              | 4       | 22              | 25                        | 4.80   | +1.04                      | 1.51                  | 4.0                        | 6                              | 11     | 15                                 | 5         | nw.         | Prof. William Wiener.       |
| New Brunswick.....                          | Middlesex.....  | 110              | 71                       | 32.6                          | +2.4                       | 63       | 11              | 3       | 22              | 34                        | 5.03   | +1.24                      | 1.37                  | T.                         | 6                              | 15     | 11                                 | 5         | nw.         | N. J. Experiment Station.   |
| New Milford <sup>††</sup> .....             | Bergen.....     | 9                | 4                        | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                     | 4.77   | .....                      | 1.55                  | .....                      | 6                              | .....  | .....                              | .....     | nw.         | Hackensack Water Co.        |
| Paterson.....                               | Passaic.....    | 80               | 53                       | 33.2                          | +3.6                       | 60       | 11              | 5       | 22              | 33                        | 4.91   | +1.06                      | 1.66                  | 2.0                        | 6                              | .....  | .....                              | .....     | nw.         | Marion T. Probert.          |
| Plainfield.....                             | Union.....      | 120              | 36                       | 31.3                          | +1.3                       | 62       | 11              | 2       | 22              | 33                        | 5.04   | +1.02                      | 1.34                  | 2.5                        | 6                              | 15     | 9                                  | 7         | nw.         | E. D. Pearson.              |
| Somerville.....                             | Somerset.....   | 70               | 41                       | 32.0                          | +3.2                       | 61       | 11              | 4       | 22 <sup>†</sup> | 34                        | 4.74   | +1.02                      | 1.37                  | 2.0                        | 7                              | 18     | 7                                  | 6         | w.          | H. B. TenEyck.              |
| South Orange.....                           | Essex.....      | 200              | 54                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....                              | .....     | .....       | F. H. Meeder.               |
| Woodcliffe Lake <sup>††</sup> .....         | Bergen.....     | 100              | 4                        | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                     | 3.74   | .....                      | 1.15                  | .....                      | 6                              | .....  | .....                              | .....     | .....       | Hackensack Water Co.        |
| New York, N. Y.....                         |                 | 365              | 54                       | 32.5                          | +1.6                       | 57       | 16              | 4       | 22              | 25                        | 3.56   | -0.23                      | 1.20                  | 2.5                        | 6                              | 10     | 9                                  | 12        | nw.         | U. S. Weather Bureau.       |
| Means and extremes...                       |                 |                  |                          | 31.9                          | +2.2                       | 65       | 11              | 1       | 22              | 44                        | 4.70   | +0.98                      | 1.82                  | 2.2                        | 6                              | 15     | 9                                  | 7         | nw.         |                             |
| <i>The Southern Interior.</i>               |                 |                  |                          |                               |                            |          |                 |         |                 |                           |        |                            |                       |                            |                                |        |                                    |           |             |                             |
| Belle Plain.....                            | Cape May.....   | 30               | 30                       | 33.6 <sup>a</sup>             | +0.6                       | 63       | 1               | -2      | 22              | 38                        | 3.97   | +0.44                      | 1.42                  | 0.1                        | 8                              | 17     | 5                                  | 9         | nw.         | Thomas J. Durell.           |
| Bridgeton.....                              | Cumberland..... | 30               | 43                       | 34.7                          | +1.0                       | 60       | 11              | 7       | 22              | 36                        | 4.20   | +0.68                      | 1.45                  | T                          | 5                              | 21     | 3                                  | 7         | nw.         | Henry A. Jorden.            |
| Burlington.....                             | Burlington..... | 12               | 38                       | 34.2 <sup>a</sup>             | +1.9                       | 63       | 11              | 4       | 22              | 37                        | 5.19   | +1.79                      | 1.48                  | .....                      | 5                              | 21     | 5                                  | 5         | nw.         | D. S. B. McCoy.             |
| Clayton.....                                | Gloucester..... | 130              | 28                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....  | .....                              | .....     | .....       | Stanley McCool.             |
| Hammononton.....                            | Atlantic.....   | 103              | 25                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                     | 4.98   | +1.19                      | 1.70                  | T.                         | 6                              | 19     | 4                                  | 8         | w.          | Charles M. Phillips.        |
| Hightstown.....                             | Mercer.....     | 120              | 32                       | 32.6                          | +2.7                       | 62       | 11              | 2       | 22              | 36                        | 4.82   | +1.55                      | 1.37                  | .....                      | 8                              | 24     | 4                                  | 3         | nw.         | E. H. Savage, Jr.           |
| Imlaystown.....                             | Monmouth.....   | 115              | 36                       | 32.4 <sup>a</sup>             | +1.3                       | 60       | 11              | 4       | 22              | 33                        | 4.38   | +0.84                      | 1.35                  | .....                      | 6                              | 15     | 7                                  | 9         | w.          | Wm. R. Hendrickson.         |
| Indian Mills <sup>††</sup> .....            | Burlington..... | 76               | 35                       | 33.9                          | +2.0                       | 62       | 11              | -2      | 22              | 38                        | 4.66   | +0.84                      | 1.44                  | T.                         | 6                              | 14     | 5                                  | 12        | nw.         | James M. Armstrong.         |
| Lakewood.....                               | Ocean.....      | 54               | 20                       | 32.4                          | +1.1                       | 58       | 1               | 4       | 22              | 33                        | 4.80   | +1.12                      | 1.75                  | T.                         | 5                              | 16     | 5                                  | 10        | nw.         | R. W. Holman.               |
| Moorestown.....                             | Burlington..... | 75               | 61                       | 33.8 <sup>a</sup>             | +3.1                       | 61       | 11              | 5       | 22              | 30                        | 4.31   | +0.85                      | 1.29                  | 1.0                        | 4                              | 16     | 7                                  | 8         | nw.         | John B. Warrick.            |
| Northfield <sup>††</sup> .....              | Atlantic.....   | 25               | 17                       | .....                         | .....                      | .....    | .....           | .....   | .....           | .....                     | 3.87   | +0.34                      | 1.53                  | .....                      | 7                              | .....  | .....                              | .....     | .....       | William L. Flick.           |
| Pleasantville <sup>††</sup> .....           | Atlantic.....   | 26               | 26                       | 32.2                          | .....                      | 60       | 11              | 1       | 22              | 41                        | 3.72   | +0.56                      | 1.47                  | .....                      | 8                              | 18     | 8                                  | 5         | nw.         | N. J. Dept. Conservation.   |
| Runyon.....                                 | Middlesex.....  | 18               | .....                    | 31.6 <sup>d</sup>             | .....                      | 62       | 11              | -1      | 28              | 35                        | 5.19   | .....                      | 1.48                  | .....                      | 5                              | 21     | 6                                  | 4         | w.          | N. J. Dept. Conservation.   |
| Trenton.....                                | Mercer.....     | 190              | 52                       | 32.6                          | +2.1                       | 63       | 11              | 4       | 22              | 29                        | 4.71   | +1.54                      | 1.37                  | 0.6                        | 6                              | 13     | 10                                 | 8         | nw.         | U. S. Weather Bureau.       |
| Tuckerton <sup>††</sup> .....               | Ocean.....      | 23               | 31                       | 35.2 <sup>d</sup>             | +2.6                       | 60       | 1               | 2       | 22              | 38                        | 4.03   | +0.40                      | 1.56                  | .....                      | 5                              | 14     | 12                                 | 5         | sw.         | U. S. Weather Bureau.       |
| Vineland.....                               | Cumberland..... | 109              | 55                       | 35.4                          | +3.2                       | 60       | 1 <sup>†</sup>  | 5       | 22              | 30                        | 4.51   | +0.49                      | 1.55                  | .....                      | 4                              | 16     | 8                                  | 7         | nw.         | Frank R. Austin.            |
| Philadelphia, Pa.....                       |                 | 117              | 54                       | 34.6                          | +2.0                       | 61       | 11              | 6       | 22              | 26                        | 4.45   | +1.04                      | 1.36                  | 0.5                        | 6                              | 12     | 7                                  | 12        | n.          | H. C. Himes.                |
| Means and extremes...                       |                 |                  |                          | 33.4                          | +2.0                       | 63       | 1 <sup>†</sup>  | -2      | 22              | 41                        | 4.49   | +0.90                      | 1.75                  | 0.2                        | 6                              | 18     | 6                                  | 7         | nw.         | U. S. Weather Bureau.       |
| <i>The Sea Coast.</i>                       |                 |                  |                          |                               |                            |          |                 |         |                 |                           |        |                            |                       |                            |                                |        |                                    |           |             |                             |
| Asbury Park.....                            | Monmouth.....   | 22               | 35                       | 34.4                          | +2.2                       | 60       | 11              | 4       | 21 <sup>†</sup> | 34                        | 4.35   | +0.78                      | 1.55                  | .....                      | 6                              | 11     | 10                                 | 10        | nw.         | Information Bureau.         |
| Atlantic City.....                          | Atlantic.....   | 16               | 50                       | 35.2                          | +2.7                       | 60       | 1               | 6       | 22              | 31                        | 3.28   | -0.12                      | 1.18                  | T.                         | 8                              | 14     | 6                                  | 11        | nw.         | U. S. Weather Bureau.       |
| Cape May City.....                          | Cape May.....   | 17               | 40                       | 35.6                          | +1.5                       | 58       | 1               | 9       | 22              | 26                        | 3.33   | -0.04                      | 1.06                  | T.                         | 11                             | 14     | 4                                  | 13        | nw.         | U. S. Weather Bureau.       |
| Long Branch.....                            | Monmouth.....   | 25               | 17                       | 33.2                          | +1.6                       | 60       | 16              | 4       | 22              | 27                        | 4.77   | +0.59                      | 1.57                  | T.                         | 6                              | 13     | 11                                 | 7         | sw.         | William D. Martin, Jr.      |
| Sandy Hook.....                             | Monmouth.....   | 22               | 26                       | 33.2                          | +2.4                       | 56       | 11              | 6       | 22              | 24                        | 5.13   | +1.28                      | 1.45                  | T.                         | 7                              | 12     | 9                                  | 10        | w.          | U. S. Weather Bureau.       |
| Means and extremes...                       |                 |                  |                          | 34.3                          | +2.1                       | 60       | 1 <sup>†</sup>  | 4       | 21 <sup>†</sup> | 34                        | 4.17   | +0.50                      | 1.57                  | T.                         | 8                              | 13     | 8                                  | 10        | nw.         |                             |
| For the State.....                          |                 |                  |                          | 32.2                          | +2.2                       | 65       | 11              | -6      | 27              | 44                        | 4.48   | +0.83                      | 2.09                  | 1.4                        | 8                              | 15     | 8                                  | 8         | nw.         |                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Indian Mills is Atsion; New Milford and Woodcliffe Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for January, 1924.

| Stations.                                  | Drainage Basin. | Day of month. |     |      |      |    |    |   |   |   |     |      |     |    |    |    |        |      |    |     |     |    |    |    |      |      |      |    |    |     |     |      | Total. |
|--------------------------------------------|-----------------|---------------|-----|------|------|----|----|---|---|---|-----|------|-----|----|----|----|--------|------|----|-----|-----|----|----|----|------|------|------|----|----|-----|-----|------|--------|
|                                            |                 | 1             | 2   | 3    | 4    | 5  | 6  | 7 | 8 | 9 | 10  | 11   | 12  | 13 | 14 | 15 | 16     | 17   | 18 | 19  | 20  | 21 | 22 | 23 | 24   | 25   | 26   | 27 | 28 | 29  | 30  | 31   |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |     |      |      |    |    |   |   |   |     |      |     |    |    |    |        |      |    |     |     |    |    |    |      |      |      |    |    |     |     |      |        |
| Belvidere.....                             | Delaware.....   |               |     | .97  |      |    |    |   |   |   |     | .72  |     |    |    |    | .47    | .80  |    |     |     |    |    |    |      | 1.30 |      |    |    |     | .15 | 4.41 |        |
| Charlotteburg.....                         | Passaic.....    |               |     | 1.16 |      |    |    |   |   |   |     | 1.09 |     |    |    |    | * .20  | .09  |    |     |     |    |    |    |      | 1.35 |      |    |    |     |     | 5.66 |        |
| Culvers Lake.....                          | Delaware.....   | .08           |     | .81  |      | T. |    |   |   |   |     | 1.30 |     |    |    |    | .17    | .43  |    |     |     |    |    |    |      | 1.27 |      | T. |    |     | T.  | 4.06 |        |
| Dover.....                                 | Passaic.....    |               |     | 1.12 |      |    |    |   |   |   |     | 1.12 |     |    |    |    | 2.05   |      |    |     |     |    |    |    | *    | 1.28 |      |    |    |     |     | 5.57 |        |
| Layton.....                                | Delaware.....   |               |     | .63  |      | T. |    |   |   |   |     | 1.32 |     |    |    |    | .52    | .14  |    |     |     |    |    |    |      | .73  |      |    |    |     |     | 3.34 |        |
| Newton.....                                | Delaware.....   |               |     | .90  |      | T. |    |   |   |   |     | .87  |     |    |    |    | .78    | .12  |    |     |     |    |    |    |      | 1.10 |      |    |    |     |     | 3.77 |        |
| Phillipsburg.....                          | do.....         | T.            | T.  | .86  |      |    |    |   |   |   |     | .65  |     |    |    |    | 1.29   |      |    |     |     |    |    |    | 12   | 1.03 |      |    |    |     | T.  | 3.95 |        |
| Sussex.....                                | Hudson.....     |               |     | .14  |      |    |    |   |   |   |     | .97  |     |    |    |    | .46    | .39  |    |     |     |    |    |    |      | .92  |      |    |    |     |     | 2.88 |        |
| <i>The Red Sandstone Plain.</i>            |                 |               |     |      |      |    |    |   |   |   |     |      |     |    |    |    |        |      |    |     |     |    |    |    |      |      |      |    |    |     |     |      |        |
| Bergen Point.....                          | Coast.....      | .05           |     | 1.22 |      | T. |    |   |   |   |     | .90  |     |    |    |    | 1.02   |      |    | T.  |     |    |    |    |      | 1.27 |      |    |    |     |     | 4.46 |        |
| Boonton   .....                            | Passaic.....    | .06           |     | .94  | .15  |    |    |   |   |   |     | .12  | .30 |    |    |    | 1.12   |      |    |     |     |    |    |    |      | 1.03 |      |    |    |     | T.  | 3.72 |        |
| Chatham   .....                            | do.....         | .19           |     | 1.16 | .16  |    |    |   |   |   |     | .17  | .94 |    |    |    | 1.75   |      |    | T.  |     |    |    |    |      | 1.21 |      |    |    |     |     | 5.58 |        |
| Elizabeth.....                             | Coast.....      | T.            |     | 1.32 |      |    |    |   |   |   |     | .99  |     |    |    |    | * 1.40 |      |    | T.  |     |    |    |    |      | 1.38 |      |    |    |     |     | 5.09 |        |
| Flemington.....                            | Raritan.....    | .02           |     | 1.26 |      |    | T. |   |   |   |     | .77  |     |    |    |    | .24    | .87  |    | T.  |     |    |    |    |      | 1.09 |      |    |    |     | T.  | 4.25 |        |
| Highwood.....                              | Hackensack..... |               |     | 1.09 |      |    | T. |   |   |   |     | .80  |     |    |    |    | 1.57   | .25  |    |     | T.  |    |    |    | 1.13 |      |      | T. |    |     | T.  | 4.84 |        |
| Jersey City.....                           | Coast.....      | .03           | .02 | 1.08 |      | T. |    |   |   |   |     | .75  |     |    |    |    | 1.08   |      |    | T.  | T.  |    |    |    |      | 1.30 |      |    |    |     |     | 4.26 |        |
| Lambertville.....                          | Delaware.....   | .15           |     | 1.30 |      |    |    |   |   |   |     | .80  |     |    |    |    | 1.34   | .09  |    | T.  |     |    |    |    |      | 1.48 |      |    |    | .01 |     | 5.17 |        |
| Little Falls.                              | Passaic.....    | .10           |     | 1.05 | .13  |    |    |   |   |   |     | .20  | .52 |    |    |    | 1.67   |      |    |     |     |    |    |    |      | 1.19 |      |    |    |     |     | 4.86 |        |
| Newark**.....                              | Coast.....      |               | .16 | 1.03 |      |    |    |   |   |   |     | .79  |     |    |    |    | 1.51   |      |    |     |     |    |    |    | .40  | .91  |      |    |    |     |     | 4.80 |        |
| New Brunswick.....                         | Raritan.....    |               | T.  | 1.37 |      | T. |    |   |   |   |     | 1.22 |     |    |    |    | .48    | .75  |    |     |     |    |    |    |      | 1.21 |      |    |    |     |     | 5.03 |        |
| New Milford.....                           | Hackensack..... | .09           | .10 | 1.04 |      |    |    |   |   |   |     | .81  |     |    |    |    | 1.55   |      |    |     |     |    |    |    |      | 1.18 |      |    |    |     |     | 4.77 |        |
| Paterson.....                              | Passaic.....    |               |     | 1.15 |      | T. |    |   |   |   |     | .85  |     |    |    |    | .82    | .84  |    |     |     |    |    |    |      | 1.25 |      | T. |    |     | T.  | 4.91 |        |
| Plainfield.....                            | Raritan.....    |               | .03 | 1.27 |      |    |    |   |   |   |     | 1.23 |     |    |    |    | 1.17   |      |    | T.  |     |    |    |    |      | 1.34 |      |    |    |     |     | 5.04 |        |
| Somerville.....                            | Raritan.....    |               |     | 1.37 |      |    |    |   |   |   |     | .79  |     |    |    |    | .40    | .83  |    |     |     |    |    |    |      | 1.35 |      |    |    |     |     | 4.74 |        |
| South Orange.....                          | Rahway.....     |               |     |      |      |    |    |   |   |   |     |      |     |    |    |    |        |      |    |     |     |    |    |    |      |      |      |    |    |     |     |      |        |
| Woodcliffe Lake.**                         | Hackensack..... |               | .10 | .90  |      |    |    |   |   |   |     | .70  |     |    |    |    | 1.15   |      |    |     |     |    |    |    |      | .89  |      |    |    |     |     | 3.74 |        |
| New York, N. Y***                          | Coast.....      |               | .17 | .90  |      | T. |    |   |   |   | T.  | .55  |     |    |    |    | .74    |      |    |     | T.  | T. |    |    |      | .30  | .90  | T. |    |     |     | 3.56 |        |
| <i>The Southern Interior.</i>              |                 |               |     |      |      |    |    |   |   |   |     |      |     |    |    |    |        |      |    |     |     |    |    |    |      |      |      |    |    |     |     |      |        |
| Belle Plain.....                           | Tuckahoe.....   |               | .04 | 1.11 |      |    |    |   |   |   |     | .15  |     |    |    |    | *      | 1.10 |    |     | .11 |    |    |    |      | 1.42 |      |    |    |     | .04 | 3.97 |        |
| Bridgeton.....                             | Coast.....      |               | .40 | .80  |      |    |    |   |   |   |     | .50  |     |    |    |    | * 1.05 |      |    |     |     |    |    |    |      | 1.45 |      |    |    |     |     | 4.20 |        |
| Burlington.....                            | Delaware.....   |               |     | 1.32 |      |    |    |   |   |   |     | .95  |     |    |    |    | * 1.44 |      |    |     |     |    |    |    |      | 1.48 |      |    |    |     |     | 5.19 |        |
| Clayton.....                               | Delaware.....   |               |     |      |      |    |    |   |   |   |     |      |     |    |    |    | .55    |      |    |     |     |    |    |    |      | 1.00 |      |    |    | T.  |     | \$   |        |
| Hammonton.....                             | Mullica.....    |               | .20 | 1.20 | T.   |    |    |   |   |   |     | 1.00 |     |    |    |    | .72    | .16  |    |     |     |    |    |    |      | 1.70 |      |    |    |     |     | 4.98 |        |
| Hightstown.....                            | Raritan.....    | .02           |     | 1.37 |      | T. |    |   |   |   |     | 1.08 |     |    |    |    | .35    | .80  |    | T.  |     |    |    |    |      | 1.20 |      |    |    |     | T.  | 4.82 |        |
| Imlaystown.....                            | Delaware.....   | .05           |     | 1.35 |      |    |    |   |   |   |     | .83  |     |    |    |    | .30    | .87  |    |     |     |    |    |    |      | .98  |      |    |    |     |     | 4.38 |        |
| Indian Mills.....                          | Mullica.....    |               | T.  | 1.36 |      | T. |    |   |   |   |     | .56  |     |    |    |    | .50    | .78  |    |     | .02 |    |    |    |      | 1.44 |      |    |    |     | T.  | 4.66 |        |
| Lakewood.....                              | Metedeconk..... |               | T.  | 1.35 |      |    |    |   |   |   |     | .55  |     |    |    |    | .80    | .35  |    |     |     |    |    |    |      | 1.75 |      |    |    |     | T.  | 4.80 |        |
| Moorestown.....                            | Delaware.....   |               |     | 1.21 |      |    |    |   |   |   |     | .70  |     |    |    |    | * 1.11 |      |    |     |     |    |    |    |      | 1.29 |      |    |    |     |     | 4.81 |        |
| Northfield.....                            | Coast.....      |               | .06 | 1.01 |      |    |    |   |   |   |     | .09  |     |    |    |    | .80    | .31  |    |     | .07 |    |    |    |      | 1.53 |      |    |    |     | T.  | 3.87 |        |
| Pleasantville.....                         | Coast.....      |               |     | .71  | .31  |    |    |   |   |   |     | .09  |     |    |    |    | 1.09   |      |    | .04 | .01 |    |    |    |      | 1.47 |      |    |    |     |     | 3.72 |        |
| Runyon.....                                | Coast.....      |               |     | 1.48 |      |    |    |   |   |   |     | 1.24 |     |    |    |    | 1.20   |      |    |     |     |    |    |    |      | 1.27 |      |    |    |     |     | 5.19 |        |
| Trenton***.....                            | Delaware.....   |               | .43 | .94  |      | T. |    |   |   |   |     | 1.04 |     |    |    |    | 1.14   |      |    | T.  | T.  |    |    |    |      | .34  | .82  |    |    |     | T.  | 4.71 |        |
| Tuckerton.....                             | Coast.....      |               | .82 | .10  |      |    |    |   |   |   |     | .45  |     |    |    |    | 1.10   |      |    |     |     |    |    |    |      | 1.56 |      |    |    |     |     | 4.03 |        |
| Vineland.....                              | Maurice.....    |               |     | 1.36 |      |    |    |   |   |   |     | .53  |     |    |    |    | * 1.07 |      |    |     |     |    |    |    |      | 1.55 |      |    |    |     |     | 4.51 |        |
| Philadelphia, Pa.....                      | Delaware.....   |               | .47 | .81  |      |    |    |   |   |   |     | .72  |     |    |    |    | 1.09   |      |    | T.  |     |    |    |    |      | .39  | .97  |    |    |     | T.  | 4.45 |        |
| <i>The Sea Coast.</i>                      |                 |               |     |      |      |    |    |   |   |   |     |      |     |    |    |    |        |      |    |     |     |    |    |    |      |      |      |    |    |     |     |      |        |
| Asbury Park.....                           | Coast.....      |               | .05 | 1.30 |      |    |    |   |   |   |     | .50  |     |    |    |    | .95    |      |    |     |     |    |    |    |      | 1.55 |      |    |    |     |     | 4.35 |        |
| Atlantic City***.....                      | do.....         |               | .33 | .63  |      | T. |    |   |   |   |     | .22  |     |    |    |    | .81    |      |    | .10 | T.  |    |    |    |      | .39  | .79  |    |    | .01 |     | 3.28 |        |
| Cape May City.....                         | do.....         |               | .15 | .94  |      | T. |    |   |   |   | .02 | .15  |     |    |    |    | .82    | .04  |    | .04 |     |    |    |    |      | .14  | .92  |    |    | .01 | .10 | 3.33 |        |
| Long Branch**.....                         | do.....         |               | T.  | .38  | .98  |    |    |   |   |   |     | .78  |     |    |    |    | 1.06   |      |    |     |     |    |    |    |      | .35  | 1.22 |    |    |     |     | 4.77 |        |
| Sandy Hook***.....                         | do.....         |               | .01 | .31  | 1.00 |    | T. |   |   |   |     | .97  |     |    |    |    | 1.45   |      |    |     | T.  | T. |    |    |      | .32  | 1.07 |    |    |     | T.  | 5.13 |        |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine                       |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |                                     |
| Atlantic City.....    | 30.21         | 30.81    | 2     | 29.38   | 24    | 20               | 80              | se.        | 16    | 74                                         | 67                                         | 60                                  |
| Cape May City.....    | 30.25         | 30.82    | 2     | 29.56   | 11    | 11               | 68              | se.        | 16    | 78                                         | 72                                         | .....                               |
| Long Branch.....      | 30.25         | 30.82    | 2     | 29.56   | 11    | 11               | 60              | se.        | 16    | .....                                      | .....                                      | .....                               |
| Newark.....           | 30.17         | 30.83    | 2     | 29.39   | 11    | 23               | 74              | nw.        | 25    | 65                                         | 60                                         | 61                                  |
| New York, N. Y.....   | 30.22         | 30.83    | 2     | 29.38   | 11    | 12               | 42              | sw.        | 11    | 66                                         | 58                                         | 58                                  |
| Philadelphia, Pa..... | 30.17         | 30.83    | 2     | 29.36   | 11    | 20               | 72              | s.         | 11    | 74                                         | 70                                         | 61                                  |
| Sandy Hook.....       | 30.19         | 30.81    | 2     | 29.38   | 11    | 14               | 62              | nw.        | 25    | 72                                         | 62                                         | 62                                  |
| Trenton.....          |               |          |       |         |       |                  |                 |            |       |                                            |                                            |                                     |

\* 7 a. m. † 9 p. m.



## Daily Temperatures for January, 1924.

| Stations.                            | 1            | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean.             |                   |      |
|--------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|------|
| The Highlands and Kittatinny Valley. |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |
| Belvidere.....                       | Maximum..... | 35    | 33    | 38    | 37    | 29    | 24    | 30    | 38    | 44    | 43    | 52    | 48    | 39    | 34    | 37    | 47    | 52    | 39    | 41    | 40    | 34    | 22    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 38.0 <sup>1</sup> |      |
|                                      | Minimum..... | 29    | 17    | 27    | 20    | 17    | 5     | 13    | 18    | 18    | 20    | 38    | 32    | 23    | 25    | 15    | 22    | 35    | 24    | 26    | 29    | 34    | 19    | 14    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 20.2 <sup>2</sup> |      |
| Charlotteburg.....                   | Maximum..... | ..... | ..... | 40    | 31    | 27    | 32    | 38    | 51    | 53    | 69    | 49    | 40    | 31    | 36    | 55    | 43    | 38    | 42    | 38    | 4     | 1     | 14    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 39.3 <sup>3</sup> |      |
|                                      | Minimum..... | ..... | ..... | 29    | 10    | 12    | 18    | 17    | 21    | 36    | 29    | 27    | 19    | 12    | 13    | 36    | 22    | 27    | 24    | 4     | -1    | 16    | 14    | 24    | -1    | 1     | -1    | 24    | 31    | 43    | 33    | 18.3 <sup>4</sup> |                   |      |
| Dover.....                           | Maximum..... | 43    | 29    | 41    | 33    | 29    | 25    | 32    | 38    | 44    | 51    | 60    | 40    | ..... | 33    | 36    | 55    | 47    | 37    | 43    | 42    | 26    | 23    | 42    | 31    | 40    | 23    | 16    | 30    | 46    | 46    | 37.4 <sup>5</sup> |                   |      |
|                                      | Minimum..... | 19    | 15    | 27    | 19    | 10    | 4     | 18    | 19    | 23    | 24    | 35    | 26    | 23    | 21    | 15    | 21    | 30    | 24    | 29    | 25    | 2     | 1     | 23    | 16    | 22    | 4     | 1     | 3     | 29    | 32    | 31                | 19.1              |      |
| Layton.....                          | Maximum..... | 36    | 30    | 42    | 41    | 30    | 24    | 32    | 38    | 47    | 50    | 62    | 46    | 40    | 36    | 35    | 52    | 52    | 39    | 42    | 39    | 33    | 21    | 42    | 35    | 41    | 40    | 12    | 25    | 40    | 43    | 38.3              |                   |      |
|                                      | Minimum..... | 20    | 5     | 27    | 13    | 13    | 4     | 16    | 18    | 15    | 20    | 36    | 28    | 25    | 12    | 17    | 29    | 22    | 24    | 30    | 4     | 0     | 20    | 12    | 25    | 4     | -4    | -3    | 25    | 29    | 33    | 17.5              |                   |      |
| Newton.....                          | Maximum..... | 38    | 30    | 40    | 40    | 27    | 30    | 31    | 37    | 46    | 48    | 60    | 42    | 39    | 35    | 55    | 45    | 37    | 43    | 41    | 35    | 20    | 42    | 35    | 39    | 38    | 15    | 28    | 42    | 45    | 40    | 38.0              |                   |      |
|                                      | Minimum..... | 20    | 12    | 26    | 20    | 18    | 4     | 12    | 18    | 25    | 26    | 29    | 30    | 24    | 24    | 14    | 22    | 30    | 22    | 26    | 31    | 0     | -3    | 18    | 17    | 25    | 6     | -2    | 3     | 17    | 34    | 34                | 18.8              |      |
| Phillipsburg.....                    | Maximum..... | 42    | 32    | 39    | 39    | 31    | 21    | 32    | ..... | 48    | 54    | 39    | 40    | 34    | 35    | 50    | 51    | 35    | 44    | 37    | 31    | 19    | 31    | 34    | 33    | 33    | 15    | 30    | ..... | 45    | 40    | 36.2 <sup>2</sup> |                   |      |
|                                      | Minimum..... | 26    | 21    | 30    | 24    | 18    | 8     | 21    | 19    | 21    | 24    | 38    | 28    | 27    | 25    | 19    | 26    | 34    | 28    | 31    | 32    | 5     | 4     | 17    | 18    | 30    | 9     | 6     | 8     | 28    | 35    | 36                | 22.5              |      |
| Sussex.....                          | Maximum..... | 43    | 32    | 41    | 39    | 29    | 26    | 36    | 39    | 47    | 50    | 60    | 44    | 38    | 35    | 54    | 50    | 52    | 41    | 42    | 40    | 32    | 22    | 44    | 35    | 40    | 40    | 16    | 29    | 44    | 40    | 42                | 42.9              |      |
|                                      | Minimum..... | 26    | 20    | 32    | 16    | 16    | 5     | 16    | 19    | 20    | 24    | 36    | 33    | 21    | 17    | 16    | 17    | 32    | 22    | 22    | 30    | 0     | 1     | 18    | 12    | 27    | 9     | 0     | 2     | 27    | 32    | 35                | 21.5              |      |
| The Red Sandstone Plain.             |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |
| Bergen Point.....                    | Maximum..... | 47    | ..... | 45    | 41    | 35    | 31    | 35    | 38    | 51    | 52    | 61    | 43    | 40    | 39    | 39    | ..... | 58    | ..... | 46    | 41    | 27    | 44    | 36    | 47    | 43    | ..... | 32    | 53    | 51    | 43    | 43.0 <sup>2</sup> |                   |      |
|                                      | Minimum..... | 28    | 21    | 34    | 26    | 31    | 9     | 20    | 20    | 27    | 32    | 41    | 34    | 29    | 30    | 22    | 32    | 36    | 30    | 32    | 35    | 8     | 5     | 27    | 23    | 32    | 13    | 11    | 11    | 31    | 33    | 35                | 25.7              |      |
| Boonton§§.....                       | Maximum..... | 38    | 36    | 42    | 35    | 31    | ..... | 34    | 39    | 48    | 61    | 61    | 41    | 39    | 34    | 37    | 55    | 45    | 40    | 44    | 44    | 23    | 29    | 43    | 38    | 43    | 20    | 17    | 34    | 48    | 45    | 43                | 39.6 <sup>3</sup> |      |
|                                      | Minimum..... | 28    | 11    | 15    | 19    | 17    | 5     | 11    | 17    | 17    | 17    | 22    | 33    | 22    | 23    | 11    | 17    | 31    | 22    | 23    | 30    | 8     | 2     | 3     | 12    | 14    | 10    | 2     | 2     | 6     | 28    | 30                | 16.4              |      |
| Elizabeth.....                       | Maximum..... | 46    | 35    | 44    | 42    | 33    | 29    | 34    | 39    | 49    | 49    | 61    | 52    | 39    | 38    | 37    | 50    | 58    | 42    | 47    | 45    | 39    | 25    | 45    | 41    | 46    | 45    | 19    | 31    | 54    | 50    | 45                | 42.2              |      |
|                                      | Minimum..... | 32    | 19    | 31    | 24    | 25    | 7     | 19    | 21    | 22    | 26    | 42    | 34    | 27    | 29    | 19    | 24    | 38    | 27    | 29    | 37    | 8     | 4     | 24    | 19    | 32    | 14    | 5     | 8     | 30    | 32    | 32                | 23.9              |      |
| Flemington.....                      | Maximum..... | 43    | 34    | 41    | 41    | 36    | 31    | 35    | 40    | 50    | 49    | 61    | 53    | 48    | 44    | 39    | 50    | 56    | 42    | 46    | 44    | 38    | 26    | 45    | 44    | 47    | 43    | 20    | 32    | 53    | 46    | 47                | 42.7              |      |
|                                      | Minimum..... | 34    | 19    | 30    | 23    | 22    | 8     | 19    | 19    | 18    | 22    | 37    | 34    | 26    | 22    | 17    | 23    | 36    | 27    | 26    | 32    | 8     | 3     | 23    | 17    | 29    | 12    | 5     | 6     | 27    | 28    | 35                | 22.2              |      |
| Highwood.....                        | Maximum..... | 43    | 32    | 43    | 38    | 32    | 26    | 35    | 38    | 48    | 47    | 57    | 41    | 39    | 35    | 35    | 54    | 55    | 37    | 42    | 45    | 35    | 26    | 44    | 38    | 46    | 47    | 43    | 20    | 32    | 53    | 46                | 47                | 42.7 |
|                                      | Minimum..... | 24    | 15    | 32    | 23    | 18    | 8     | 20    | 20    | 21    | 24    | 24    | 40    | 28    | 24    | 26    | 15    | 20    | 32    | 26    | 26    | 34    | 6     | 4     | 15    | 16    | 31    | 10    | 4     | 5     | 28    | 32                | 28                | 21.8 |
| Jersey City.....                     | Maximum..... | 46    | 35    | 48    | 35    | 35    | 28    | 35    | 40    | 50    | 51    | 58    | 43    | 42    | 37    | 38    | 53    | 57    | 40    | 48    | 45    | 35    | 28    | 44    | 34    | 46    | 41    | 20    | 33    | 53    | 49    | 44                | 41.6              |      |
|                                      | Minimum..... | 28    | 21    | 32    | 25    | 20    | 8     | 20    | 24    | 27    | 30    | 37    | 34    | 32    | 28    | 22    | 30    | 37    | 28    | 33    | 35    | 6     | 5     | 29    | 25    | 34    | 41    | 20    | 33    | 53    | 49    | 44                | 41.6              |      |
| Lambertville.....                    | Maximum..... | 50    | 31    | 41    | 38    | 31    | 25    | 30    | 37    | 47    | 48    | 59    | 38    | 38    | 36    | ..... | 53    | 55    | 37    | 45    | 42    | 32    | 25    | 43    | 37    | 46    | 42    | 15    | 33    | 50    | 47    | 42                | 39.8 <sup>2</sup> |      |
|                                      | Minimum..... | 29    | 19    | 29    | 22    | 18    | 7     | 17    | 19    | 25    | 29    | 38    | 31    | 27    | 21    | 16    | 26    | 34    | 26    | 29    | 32    | 4     | 1     | 24    | 18    | 29    | 10    | 4     | 6     | 32    | 33    | 34                | 22.2              |      |
| Little Falls§§.....                  | Maximum..... | 37    | 37    | 42    | 37    | 32    | 30    | 35    | 40    | 50    | 61    | 65    | ..... | 39    | 36    | 39    | 58    | 49    | 43    | 47    | 45    | 15    | 30    | 41    | 40    | 50    | 18    | 20    | 36    | 53    | 50    | 45                | 40.8 <sup>2</sup> |      |
|                                      | Minimum..... | 30    | 16    | 19    | 23    | 20    | 7     | 15    | 15    | 21    | 24    | 26    | 35    | 25    | 28    | 16    | 21    | 35    | 26    | 28    | 32    | 10    | 4     | 7     | 18    | 18    | 12    | 5     | 6     | 11    | 30    | 34                | 19.9              |      |
| Newark.....                          | Maximum..... | 39    | 38    | 43    | 36    | 34    | 29    | 34    | 33    | 44    | 46    | 57    | 37    | 35    | 36    | 39    | 57    | 49    | 42    | 47    | 44    | 30    | 26    | 42    | 33    | 43    | 30    | 18    | 30    | 54    | 50    | 44                | 39.3              |      |
|                                      | Minimum..... | 29    | 29    | 32    | 30    | 23    | 9     | 20    | 22    | 29    | 30    | 35    | 31    | 29    | 30    | 39    | 52    | 30    | 31    | 39    | 30    | 10    | 4     | 25    | 25    | 30    | 10    | 10    | 12    | 30    | 38    | 34                | 25.7              |      |
| New Brunswick.....                   | Maximum..... | 46    | 32    | 46    | 41    | 33    | 26    | 32    | 38    | 50    | 55    | 63    | 44    | 39    | 37    | 36    | 52    | 60    | 41    | 48    | 46    | 39    | 26    | 44    | 40    | 49    | 45    | 17    | 32    | 53    | 51    | 45                | 42.1              |      |
|                                      | Minimum..... | 30    | 18    | 30    | 24    | 23    | 7     | 18    | 20    | 21    | 28    | 40    | 34    | 26    | 29    | 16    | 24    | 37    | 28    | 28    | 36    | 5     | 3     | 25    | 16    | 31    | 12    | 6     | 6     | 30    | 35    | 23.1              |                   |      |
| Paterson.....                        | Maximum..... | 43    | 32    | 43    | 41    | 33    | 25    | 37    | 40    | 50    | 48    | 60    | 47    | 40    | 40    | 40    | 50    | 58    | 41    | 46    | 45    | 41    | 25    | 46    | 37    | 46    | 41    | 20    | 31    | 54    | 50    | 46                | 41.8              |      |
|                                      | Minimum..... | 26    | 20    | 31    | 26    | 24    | 9     | 20    | 24    | 25    | 27    | 40    | 35    | 28    | 31    | 22    | 25    | 40    | 28    | 30    | 36    | 8     | 5     | 24    | 22    | 30    | 13    | 6     | 10    | 30    | 33    | 36                | 24.6              |      |
| Plainfield.....                      | Maximum..... | 47    | 33    | 48    | 35    | 33    | 28    | 34    | 40    | 50    | 50    | 62    | 43    | 42    | 37    | 37    | 53    | 58    | 40    | 47    | 44    | 33    | 25    | 44    | 34    | 47    | 41    | 17    | 32    | 54    | 48    | 44                | 41.3              |      |
|                                      | Minimum..... | 29    | 16    | 28    | 22    | 20    | 6     | 18    | 19    | 17    | 17    | 37    | 34    | 23    | 27    | 14    | 20    | 35    | 27    | 25    | 33    | 5     | 2     | 23    | 15    | 32    | 12    | 4     | 4     | 28    | 33    | 35                | 21.3              |      |
| Somerville.....                      | Maximum..... | 45    | 34    | 42    | 41    | 33    | ..... | 34    | 40    | 51    | 47    | 61    | 45    | 40    | 38    | 38    | 51    | 58    | 41    | 47    | 45    | 38    | 26    | 45    | 41    | 48    | 43    | 18    | 31    | 53    | 49    | 46                | 42.3 <sup>2</sup> |      |
|                                      | Minimum..... | 24    | 18    | 30    | 22    | 21    | 8     | 19    | 18    | 17    | 21    | 44    | 34    | 24    | 27    | 15    | 24    | 35    | 27    | 25    | 32    | 8     | 4     | 24    | 15    | 31    | 12    | 6     | 4     | 26    | 27    | 32                | 21.7              |      |
| South Orange.....                    | Maximum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
|                                      | Minimum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
| New York, N. Y.....                  | Maximum..... | 46    | 36    | 48    | 35    | 35    | 28    | 35    | 39    | 49    | 52    | 57    | 43    | 42    | 37    | 39    | 57    | 52    | 39    | 48    | 46    | 24    | 29    | 44    | 34    | 46    | 28    | 20    | 33    | 53    | 48    | 44                | 40.8              |      |
|                                      | Minimum..... | 23    | 21    | 32    | 25    | 14    | 8     | 20    | 24    | 30    | 36    | 38    | 34    | 33    | 25    | 22    | 34    | 32    | 28    | 33    | 24</  |       |       |       |       |       |       |       |       |       |       |                   |                   |      |



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V N J

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXIX.

FEBRUARY, 1924.

No. 2.

### GENERAL SUMMARY.

February opened with six consecutive days somewhat warmer than normal, but thereafter with but little exception, it was colder than normal. Up to the 10th of the month, snow was consistently lacking, thereafter however it occurred frequently, but in small volume. The earlier impression of a mild and open winter was quickly changed to a realization that February often provides the most rigorous of winter conditions. There were no especially severe storms except that of the 19-20th; this storm started as snow in the evening of the 19th, and turned to rain during the early hours of the 20th. Considerable local damage was caused by the rapid melting of the snow and accumulation of rain. Up to this storm there had been but little ice harvest, especially in central and southern regions, but with freezing weather, following the storm, a fairly satisfactory supply of ice was housed.

Precipitation was somewhat below normal over the northern half of the State, especially in Sussex County, and the greatest excess was in the southern interior.

Storm warnings were displayed along the coast on the 4th, 19th to 21st, 26th and 27th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 28.9°, which was 1.0° below the normal. The highest temperature was 62° at Bridgeton on the 4th, and the lowest, 3° below zero, at Layton on the 25th. The greatest daily range of temperature was 45° at Layton on the 25th. The highest monthly mean was 33.6° at Cape May City, and the lowest, 24.6° at Layton and Newton.

The temperature departure from the normal for the year 1924 to date, by sections, is: The Highlands, +0.8°; Red Sandstone Plain, +0.4°; Southern Interior, +0.6°; Sea Coast, +0.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 38 stations, was 4.10 inches, which was 0.40 inch above the normal. The greatest monthly precipitation was 6.11 inches at Indian Mills, and the least 2.45 inches at Newton. The average total snowfall at 19 selected stations was 11.9 inches, which was 2.6 inches above the normal; this average depth ranged from 16.0 inches in the Highlands to 9.2 inches on the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 3.45 inches at Vineland on the 19-20th. The average number of days on which 0.01 inch or more of precipitation fell was 9, which was normal.

The precipitation accumulated departure from the normal for the year 1924 to date, by sections, is: The Highlands, +0.18 inch; Red Sandstone Plain, +1.20 inches; Southern Interior, +2.03 inches; Sea Coast, +1.06 inches.

### WIND.

The prevailing wind direction was from the northwest, with an average velocity of 15 miles per hour, which was 1 mile above

the normal. The highest wind velocity, sustained for 5 consecutive minutes, was 68 miles per hour from the southeast at Atlantic City on the 20th. High winds were noted also on the 5th and 21st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 2 more than the normal; partly cloudy days, 5, which was 4 less than the normal; cloudy days, 11, which was 2 more than the normal. The per cent of possible sunshine was 59, which was 3 per cent above the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.08 inches, which was 0.02 inch below the normal. The highest reading was 30.71 inches at Sandy Hook on the 19th and Cape May City on the 24th, and the lowest, 29.51 inches at Atlantic City on the 5th and Sandy Hook on the 20th.

The mean stage of the Delaware River at Phillipsburg was 2.1 feet, and the highest stage was 3.5 feet on the 6th. At Trenton the mean stage was 1.9 feet, which was 1.4 feet below the normal. The highest stage was 5.5 feet on the 1st.

Dense fog occurred on the 5th, 6th, and 20th. Sleet was observed at a few stations on the 4th, 6th, 12th, 17th, 18th, and 21st, in the northern half of the State on the 5th, at scattered points on the 19th, and quite generally throughout the State on the 20th. Solar halos were noted on the 9th, 11th, 17th, 18th, 24th, 25th, 26th, and 27th, and lunar halos on the 11th and 19th. Thunderstorms occurred in southern counties on the 5th.

### COMPARATIVE DATA FOR FEBRUARY.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 23.9         | 54       | -2      | 3.93           | 5.85      | 1.44   | .....        | .....          | .....   | .....                  |
| 1886..... | 28.9         | 64       | -10     | 5.42           | 8.00      | 4.13   | .....        | .....          | .....   | .....                  |
| 1887..... | 33.9         | 69       | 6       | 5.24           | 6.74      | 4.13   | .....        | .....          | 13      | 13                     |
| 1888..... | 30.6         | 60       | -5      | 3.53           | 6.01      | 2.04   | .....        | .....          | 9       | 8                      |
| 1889..... | 27.7         | 53       | -3      | 2.49           | 3.80      | 1.65   | .....        | .....          | 9       | 8                      |
| 1890..... | 33.9         | 76       | 14      | 4.17           | 5.32      | 2.43   | .....        | .....          | 12      | 10                     |
| 1891..... | 38.0         | 71       | 1       | 5.11           | 7.20      | 3.70   | 6            | 9              | 13      | 14                     |
| 1892..... | 33.6         | 58       | 7       | 1.63           | 3.62      | 0.67   | 7            | 9              | 13      | 7                      |
| 1893..... | 30.1         | 63       | -1      | 5.73           | 8.90      | 3.14   | 7            | 8              | 13      | 11                     |
| 1894..... | 29.7         | 62       | -11     | 4.42           | 6.17      | 3.25   | 9            | 8              | 11      | 11                     |
| 1895..... | 23.6         | 57       | -12     | 1.28           | 2.34      | 0.55   | 13           | 9              | 6       | 5                      |
| 1896..... | 32.1         | 62       | -12     | 6.77           | 10.06     | 4.82   | 9            | 9              | 11      | 12                     |
| 1897..... | 32.5         | 59       | -6      | 3.61           | 6.37      | 2.38   | 8            | 10             | 10      | 8                      |
| 1898..... | 32.7         | 65       | -15     | 3.48           | 5.45      | 1.55   | 12           | 7              | 9       | 9                      |
| 1899..... | 25.8         | 60       | -17     | 6.06           | 8.77      | 3.78   | 10           | 6              | 12      | 15                     |
| 1900..... | 31.0         | 69       | -6      | 5.30           | 7.88      | 3.27   | 9            | 9              | 10      | 10                     |
| 1901..... | 25.4         | 52       | -6      | 0.94           | 1.65      | 0.69   | 15           | 9              | 4       | 4                      |
| 1902..... | 27.4         | 62       | -7      | 6.24           | 8.44      | 4.29   | 12           | 6              | 10      | 9                      |
| 1903..... | 33.7         | 70       | -16     | 4.87           | 6.60      | 3.74   | 12           | 8              | 8       | 10                     |
| 1904..... | 24.8         | 65       | -16     | 2.45           | 3.09      | 1.36   | 13           | 8              | 8       | 8                      |
| 1905..... | 23.4         | 53       | -18     | 2.53           | 3.96      | 0.70   | 14           | 7              | 7       | 7                      |
| 1906..... | 30.9         | 64       | -12     | 2.58           | 3.85      | 1.77   | 14           | 7              | 7       | 7                      |
| 1907..... | 23.6         | 55       | -22     | 2.67           | 3.90      | 1.82   | 14           | 7              | 7       | 8                      |
| 1908..... | 28.1         | 65       | -17     | 4.79           | 7.44      | 2.85   | 10           | 10             | 9       | 9                      |
| 1909..... | 37.8         | 72       | -2      | 4.96           | 6.78      | 3.55   | 6            | 10             | 12      | 12                     |
| 1910..... | 30.5         | 69       | -11     | 3.08           | 4.81      | 1.06   | 10           | 9              | 9       | 10                     |
| 1911..... | 30.9         | 67       | -12     | 2.78           | 4.06      | 1.76   | 8            | 7              | 13      | 11                     |
| 1912..... | 27.7         | 61       | -14     | 2.49           | 3.12      | 1.68   | 11           | 12             | 6       | 5                      |
| 1913..... | 30.6         | 70       | -5      | 2.49           | 3.21      | 1.48   | 16           | 6              | 6       | 7                      |
| 1914..... | 25.9         | 67       | -12     | 2.85           | 4.94      | 1.89   | 12           | 7              | 9       | 9                      |
| 1915..... | 35.7         | 75       | -7      | 5.37           | 7.28      | 2.97   | 11           | 6              | 11      | 8                      |
| 1916..... | 28.1         | 63       | -18     | 4.21           | 6.17      | 2.84   | 10           | 6              | 13      | 11                     |
| 1917..... | 28.1         | 62       | -19     | 1.95           | 2.90      | 0.92   | 10           | 9              | 9       | 11                     |
| 1918..... | 29.0         | 67       | -23     | 2.08           | 3.41      | 1.03   | 12           | 8              | 8       | 7                      |
| 1919..... | 33.6         | 65       | 4       | 3.39           | 6.48      | 1.37   | 15           | 4              | 9       | 10                     |
| 1920..... | 27.9         | 54       | -17     | 4.20           | 7.20      | 2.39   | 11           | 8              | 10      | 11                     |
| 1921..... | 34.0         | 71       | -5      | 3.81           | 5.82      | 2.58   | 10           | 8              | 10      | 10                     |
| 1922..... | 33.6         | 73       | -10     | 2.94           | 4.60      | 1.80   | 10           | 8              | 10      | 10                     |
| 1923..... | 26.1         | 56       | -12     | 2.58           | 3.74      | 1.51   | 10           | 8              | 10      | 12                     |
| 1924..... | 28.9         | 62       | -3      | 4.10           | 6.11      | 2.45   | 13           | 5              | 11      | 9                      |



## Climatological Data for February, 1924.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |                |         |                 | Precipitation, in inches. |        |                            |                       | No. of days.               |                                |                 |             | Prevailing direction of wind. | Observers |                                                                                                                          |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|----------------|---------|-----------------|---------------------------|--------|----------------------------|-----------------------|----------------------------|--------------------------------|-----------------|-------------|-------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date.          | Lowest. | Date.           | Greatest daily range.     | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation .01 in. or more. | Clear.          | Pt. cloudy. |                               |           | Cloudy.                                                                                                                  |
| The Highlands and Kittatinny Valley. |                 |                  |                          |                               |                            |                 |                |         |                 |                           |        |                            |                       |                            |                                |                 |             |                               |           |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289              | 33                       | 25.0 <sup>a</sup>             | -2.1                       | 45 <sup>f</sup> | 26             | 3       | 14 <sup>†</sup> | 32                        | 3.38   | -0.60                      | 1.70                  | 16.0                       | 9                              | 15              | 5           | 9                             | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719              | 32                       | 24.8 <sup>b</sup>             | -0.8                       | 44              | 27             | 2       | 24 <sup>†</sup> | 37                        | 3.39   | -0.77                      | 1.80                  | 14.5                       | 9                              | 14              | 3           | 12                            | w.        |                                                                                                                          |
| Culvers Lake††.....                  | Sussex.....     | 848              | 23                       | 25.4                          | 0.0                        | 48              | 3              | 7       | 24              | 27                        | 2.62   | -0.55                      | 1.35                  | 16.6                       | 8                              | 12              | 7           | 10                            | e.        |                                                                                                                          |
| Dover.....                           | Morris.....     | 600              | 40                       | 26.0                          | -0.2                       | 48              | 3              | 7       | 24              | 27                        | 3.47   | -0.70                      | 1.86                  | 13.0                       | 9                              | 8               | 13          | 8                             | .....     |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480              | 23                       | 24.6                          | +1.0                       | 50              | 26             | -3      | 25              | 45                        | 3.00   | +0.16                      | 1.83                  | 14.0                       | 10                             | 12 <sup>b</sup> | 4           | 13                            | nw.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769              | 41                       | 24.6 <sup>a</sup>             | -1.9                       | 43              | 3              | 5       | 13 <sup>†</sup> | 26                        | 2.45   | -1.24                      | 1.12                  | 17.3                       | 8                              | 13              | 5           | 11                            | ne.       |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363              | 41                       | 28.5 <sup>d</sup>             | +0.6                       | 43 <sup>f</sup> | 26             | 7       | 14              | 26 <sup>b</sup>           | 3.94   | +0.17                      | 1.55                  | 19.7                       | 8                              | 16              | 1           | 12                            | .....     |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442              | 30                       | 25.4                          | 0.0                        | 48              | 3              | 0       | 23              | 32                        | 3.00   | -0.50                      | 1.65                  | 16.8                       | 8                              | 18              | 3           | 8                             | .....     |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 25.6                          | -0.5                       | 50              | 26             | -3      | 25              | 45                        | 3.16   | -0.50                      | 1.86                  | 16.0                       | 9                              | 14              | 5           | 10                            | uw.       |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |                 |                |         |                 |                           |        |                            |                       |                            |                                |                 |             |                               |           |                                                                                                                          |
| Bergen Point††.....                  | Hudson.....     | 37               | 27                       | 29.6                          | +0.2                       | 48              | 3              | 10      | 13              | 29                        | 5.28   | +1.16                      | 3.03                  | 12.0                       | 9                              | 4               | 15          | 10                            | nw.       | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                         | Morris.....     | 400              | 34                       | 25.4                          | -1.7                       | 47              | 3              | 4       | 23              | 31                        | 4.84   | +1.29                      | 1.31                  | .....                      | 9                              | 16              | 0           | 13                            | nw.       |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185              | 20                       | 25.4                          | -1.7                       | 47              | 3              | 4       | 23              | 31                        | 4.84   | +1.29                      | 1.31                  | .....                      | 12                             | 17              | 5           | 7                             | nw.       |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45               | 45                       | 28.6                          | -1.9                       | 47              | 3              | 6       | 13              | 25                        | 4.62   | +0.30                      | 2.80                  | 11.0                       | 11                             | 13              | 6           | 10                            | nw.       |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140              | 38                       | 28.6                          | -0.2                       | 49              | 2              | 2       | 14              | 30                        | 3.54   | -0.13                      | 1.60                  | 14.5                       | 7                              | 17              | 3           | 9                             | nw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                      | Bergen.....     | 90               | 36                       | 26.2                          | -2.2                       | 47              | 3              | 4       | 24              | 28                        | 3.28   | -1.13                      | 1.60                  | 10.5                       | 9                              | 11              | 5           | 13                            | nw.       |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10               | 26                       | 29.8                          | -0.8                       | 47              | 2 <sup>†</sup> | 9       | 13              | 22                        | 4.72   | +0.87                      | 2.89                  | 12.3                       | 8                              | 8               | 7           | 14                            | nw.       |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370              | 37                       | 27.1                          | -3.3                       | 44              | 2              | 8       | 13 <sup>†</sup> | 22                        | 4.91   | +1.31                      | 2.12                  | 19.5                       | 13                             | 16              | 4           | 9                             | nw.       |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180              | 21                       | 27.4                          | -2.2                       | 49              | 3              | 7       | 13              | 30                        | 3.40   | -0.19                      | 2.04                  | 10.0                       | 9                              | 15              | 5           | 9                             | nw.       | Passaic Consol. Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                  |
| Newark.....                          | Essex.....      | 159              | 82                       | 28.8                          | -0.3                       | 46              | 3              | 10      | 13              | 19                        | 3.77   | +0.02                      | 1.70                  | 18.0                       | 10                             | 12              | 5           | 12                            | nw.       |                                                                                                                          |
| New Brunswick.....                   | Middlesex.....  | 110              | 71                       | 28.0                          | -2.8                       | 46              | 2              | 7       | 14              | 23                        | 4.12   | +0.37                      | 2.42                  | 9.4                        | 8                              | 14              | 6           | 9                             | nw.       |                                                                                                                          |
| New Milford††.....                   | Bergen.....     | 9                | 4                        | .....                         | .....                      | .....           | .....          | .....   | .....           | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....           | .....       | .....                         | nw.       |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80               | 53                       | 29.3                          | -0.9                       | 49              | 3              | 10      | 13              | 24                        | 4.66   | -0.30                      | 2.35                  | 10.0                       | 8                              | 10              | 0           | 19                            | nw.       | Marion T. Probert.<br>E. D. Pearson.<br>H. B. TenEyck.<br>F. H. Meeder.                                                  |
| Plainfield.....                      | Union.....      | 120              | 36                       | 27.5                          | -1.2                       | 48              | 2              | 3       | 13              | 28                        | 4.22   | +0.12                      | 2.09                  | 14.9                       | 11                             | 12              | 7           | 10                            | n.        |                                                                                                                          |
| Somerville.....                      | Somerset.....   | 70               | 41                       | 28.3                          | -0.6                       | 48              | 2              | 6       | 14              | 28                        | 3.10   | -0.81                      | 1.54                  | 7.5                        | 9                              | 15              | 0           | 14                            | w.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200              | 54                       | .....                         | .....                      | .....           | .....          | .....   | .....           | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....           | .....       | .....                         | w.        |                                                                                                                          |
| Woodcliff Lake††.....                | Bergen.....     | 100              | 4                        | .....                         | .....                      | .....           | .....          | .....   | .....           | .....                     | .....  | .....                      | .....                 | .....                      | .....                          | .....           | .....       | .....                         | .....     | Hackensack Water Co.<br>U. S. Weather Bureau.                                                                            |
| New York, N. Y.....                  |                 | 365              | 54                       | 29.1                          | -2.2                       | 46              | 3              | 9       | 13              | 21                        | 3.84   | -0.03                      | 2.09                  | 10.7                       | 10                             | 9               | 7           | 13                            | nw.       |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 28.0                          | -1.4                       | 49              | 2 <sup>†</sup> | 2       | 14              | 31                        | 4.14   | +0.22                      | 3.03                  | 12.5                       | 10                             | 13              | 5           | 11                            | nw.       |                                                                                                                          |
| The Southern Interior.               |                 |                  |                          |                               |                            |                 |                |         |                 |                           |        |                            |                       |                            |                                |                 |             |                               |           |                                                                                                                          |
| Belle Plain.....                     | Cape May.....   | 30               | 30                       | 31.7 <sup>a</sup>             | +0.2                       | 56              | 5              | 8       | 14              | 28                        | 4.08   | +0.36                      | 1.03                  | 10.6                       | 9                              | .....           | .....       | .....                         | .....     | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Stanley McCool.                                              |
| Bridgeton.....                       | Cumberland..... | 30               | 43                       | 33.2                          | -0.5                       | 62              | 4              | 15      | 24              | 28                        | 3.91   | -0.05                      | 2.15                  | 5.5                        | 8                              | 18              | 6           | 5                             | nw.       |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12               | 38                       | 30.4                          | -0.9                       | 49              | 3              | 8       | 14              | 30                        | 4.55   | +0.93                      | 2.06                  | 8.2                        | 10                             | 14              | 4           | 11                            | nw.       |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130              | 28                       | 32.6 <sup>a</sup>             | -1.9                       | 59              | 4              | 14      | 13 <sup>†</sup> | 29                        | 3.54   | -0.04                      | .....                 | .....                      | 10                             | 11              | 8           | 10                            | nw.       |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103              | 25                       | 27.4                          | -2.0                       | 48              | 2              | 1       | 14              | 31                        | 5.22   | +1.69                      | 2.35                  | 14.5                       | 7                              | 14              | 7           | 8                             | w.        | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                      | Mercer.....     | 120              | 32                       | 27.4                          | -2.0                       | 48              | 2              | 1       | 14              | 31                        | 4.68   | +0.95                      | 2.57                  | 11.5                       | 9                              | 15              | 6           | 8                             | nw.       |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115              | 36                       | 28.4 <sup>b</sup>             | -2.0                       | 49              | 4              | 2       | 14              | 29 <sup>c</sup>           | 6.11   | +2.54                      | 2.73                  | 11.5                       | 9                              | 10              | 6           | 13                            | nw.       |                                                                                                                          |
| Indian Mills††.....                  | Burlington..... | 76               | 35                       | 30.6                          | -1.2                       | 56              | 4              | 2       | 14              | 33                        | 6.11   | +2.54                      | 2.73                  | 11.5                       | 9                              | 10              | 6           | 13                            | nw.       |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54               | 20                       | 28.0                          | -1.7                       | 48              | 4 <sup>†</sup> | 0       | 14              | 32                        | 5.72   | +2.02                      | 3.28                  | 13.5                       | 10                             | 13              | 2           | 14                            | nw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                      | Burlington..... | 75               | 61                       | 30.2                          | -1.1                       | 52              | 2              | 11      | 13 <sup>†</sup> | 25                        | 4.41   | +0.81                      | 2.47                  | 13.0                       | 8                              | 10              | 9           | 10                            | nw.       |                                                                                                                          |
| Northfield††.....                    | Atlantic.....   | 25               | 17                       | .....                         | .....                      | .....           | .....          | .....   | .....           | .....                     | 3.97   | +1.08                      | 1.95                  | 10.5                       | 8                              | .....           | .....       | .....                         | nw.       |                                                                                                                          |
| Pleasantville††.....                 | Atlantic.....   | 26               | 26                       | 31.0                          | .....                      | 53              | 5              | 3       | 14              | 37                        | 4.11   | +1.20                      | 1.79                  | .....                      | 10                             | .....           | .....       | .....                         | nw.       |                                                                                                                          |
| Runyon.....                          | Middlesex.....  | 18               | .....                    | 30.6 <sup>b</sup>             | .....                      | 49              | 2              | .....   | .....           | .....                     | .....  | .....                      | 1.98                  | .....                      | .....                          | .....           | .....       | .....                         | .....     | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.           |
| Trenton.....                         | Mercer.....     | 190              | 52                       | 29.6                          | -1.1                       | 50              | 2              | 9       | 14              | 24                        | 3.44   | +0.13                      | 1.70                  | 15.6                       | 12                             | 11              | 5           | 13                            | nw.       |                                                                                                                          |
| Tuckerton††.....                     | Ocean.....      | 23               | 31                       | 31.4 <sup>a</sup>             | +0.6                       | 54              | 5              | 4       | 14              | 36                        | .....  | .....                      | .....                 | .....                      | 15                             | 7               | 7           | .....                         | ne.       |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109              | 55                       | 33.4                          | +0.9                       | 60              | 4              | 14      | 24              | 27                        | 5.67   | +1.82                      | .....                 | .....                      | 8                              | 14              | 9           | 6                             | w.        |                                                                                                                          |
| Philadelphia, Pa.....                |                 | 117              | 54                       | 32.5                          | -1.4                       | 54              | 4              | 15      | 24              | 20                        | 4.57   | +1.09                      | 2.60                  | 10.3                       | 10                             | 10              | 7           | 12                            | n.        |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 30.6                          | -0.9                       | 62              | 4              | 0       | 14              | 36                        | 4.66   | +1.13                      | 3.45                  | 11.4                       | 9                              | 13              | 6           | 10                            | nw.       |                                                                                                                          |
| The Sea Coast.                       |                 |                  |                          |                               |                            |                 |                |         |                 |                           |        |                            |                       |                            |                                |                 |             |                               |           |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22               | 35                       | 29.3                          | -2.1                       | 47              | 20             | 9       | 13              | 22                        | 4.25   | +0.63                      | 1.70                  | .....                      | 6                              | 11              | 5           | 13                            | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16               | 50                       | 32.7                          | -0.9                       | 53              | 5              | 15      | 13              | 19                        | 4.05   | +0.67                      | 2.03                  | 12.8                       | 9                              | 13              | 6           | 10                            | nw.       |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17               | 40                       | 33.6                          | -0.6                       | 52              | 5              | 15      | 24              | 18                        | 2.51   | -0.89                      | 1.47                  | 5.3                        | 9                              | 10              | 5           | 14                            | nw.       |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25               | 17                       | 29.6                          | -0.8                       | 46              | 3 <sup>†</sup> | 9       | 14              | 21                        | 5.69   | +1.64                      | 2.89                  | 10.2                       | 10                             | 9               | 8           | 12                            | nw.       |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22               | 26                       | 29.6                          | -1.0                       | 45              | 20             | 12      | 13              | 15                        | 4.41   | +0.74                      | 2.43                  | 8.5                        | 11                             | 11              | 6           | 12                            | w.        |                                                                                                                          |
| Means and extremes.....              |                 |                  |                          | 31.0                          | -1.1                       | 53              | 5              | 9       | 13 <sup>†</sup> | 22                        | 4.18   | +0.56                      | 2.89                  | 9.2                        | 9                              | 11              | 6           | 12                            | nw.       |                                                                                                                          |
| For the State.....                   |                 |                  |                          | 28.9                          | -1.0                       | 62              | 4              | -3      | 25              | 45                        | 4.10   | +0.40                      | 3.45                  | 11.9                       | 9                              | 13              | 5           | 11                            | nw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



| Daily Precipitation for February, 1924.    |                 |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
|--------------------------------------------|-----------------|---------------|---|---|----|-------|------|----|----|-----|-----|-----|-------|-----|-----|-----|----|-----|-----|-------|------|------|----|----|----|----|-----|-----|-----|----|----|----|--------|
| Stations.                                  | Drainage Basin. | Day of month. |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    | Total. |
|                                            |                 | 1             | 2 | 3 | 4  | 5     | 6    | 7  | 8  | 9   | 10  | 11  | 12    | 13  | 14  | 15  | 16 | 17  | 18  | 19    | 20   | 21   | 22 | 23 | 24 | 25 | 26  | 27  | 28  | 29 | 30 | 31 |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
| Belvidere.....                             | Delaware.....   |               |   |   |    | .78   | .16  |    |    |     | .24 |     | .18   |     | .07 | .02 |    | T.  | .13 | T.    | 1.70 |      |    |    |    |    |     | .10 |     |    |    |    | 3.38   |
| Charlotteburg.....                         | Passaic.....    |               |   |   |    | * .68 | 1.19 |    |    |     | .20 |     | .03   |     | .04 |     |    | T.  | .07 | T.    | 1.80 |      |    |    |    |    | .06 |     |     |    |    |    | 3.39   |
| Culvers Lake.....                          | Delaware.....   |               |   |   | T. | * .68 | .20  |    |    |     | .22 | T.  | .05   |     | .04 | T.  |    | T.  | .05 | T.    | 1.35 | T.   | T. |    |    |    |     | .03 |     |    |    |    | 2.62   |
| Dover.....                                 | Passaic.....    |               |   |   | *  | * .81 |      |    |    |     | .30 |     | .15   |     | .20 |     |    |     | .15 |       | 1.86 |      |    |    |    |    |     |     |     |    |    |    | 3.47   |
| Layton.....                                | Delaware.....   |               |   |   | T. | * .63 |      |    |    |     | .26 |     | .07   |     | .09 |     |    | *   | .08 | *     | 1.83 | T.   |    |    |    |    |     | .04 |     |    |    |    | 3.00   |
| Newton.....                                | Delaware.....   |               |   |   |    | .85   | .09  |    |    | T.  | .17 | T.  | .07   |     | .05 |     |    | T.  | .08 | .02   | 1.12 |      |    |    |    |    |     |     |     |    |    |    | 2.45   |
| Phillipsburg.....                          | do.....         |               |   |   |    | .94   | T.   |    |    | T.  | .20 |     | .18   |     | .02 | T.  |    |     | .12 | *     | 1.65 |      |    |    |    |    | T.  | .93 |     |    |    |    | 3.94   |
| Sussex.....                                | Hudson.....     |               |   |   |    | .51   | .20  |    |    |     | .15 |     | .21   |     | .18 |     |    |     | .05 |       | 1.65 |      |    |    |    |    |     | .05 |     |    |    |    | 3.00   |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
| Bergen Point.....                          | Coast.....      |               |   |   |    | 1.31  | .02  | T. | T. |     | .22 |     | .50   |     | .03 |     |    | T.  | .13 | .02   | 2.98 |      |    |    |    |    | T.  | .04 |     |    |    |    | 5.28   |
| Boonton   .....                            | Passaic.....    |               |   |   |    | .04   | .23  |    |    |     | .05 | .11 |       | T.  |     | .03 |    |     | .06 |       | .66  | .67  |    |    |    |    |     | .02 |     |    |    |    | \$     |
| Chatham   .....                            | do.....         |               |   |   |    | .14   | 1.04 |    |    |     | .05 | .08 | .28   | .05 | .22 | .15 |    |     | .18 | *     | 1.26 | 1.31 |    |    |    |    |     | .08 |     |    |    |    | 4.84   |
| Elizabeth.....                             | Coast.....      |               |   |   |    | * .18 | 1.23 |    |    | T.  | .18 |     | * .14 | .04 |     |     |    | *   | .18 | *     | 2.80 |      |    |    |    |    |     | .05 |     |    |    |    | 4.62   |
| Flemington.....                            | Raritan.....    |               |   |   | T. | .86   | .19  |    |    |     | .19 |     | .30   | .10 |     |     | T. | T.  | .30 | T.    | 1.60 |      |    |    |    |    |     | T.  |     |    |    |    | 3.64   |
| Highwood.....                              | Hackensack..... |               |   |   |    | 1.15  | .03  |    |    | T.  | .19 |     | .03   | T.  | .06 |     |    |     | .10 |       | 1.60 |      |    |    |    |    |     | .12 |     |    |    |    | 3.28   |
| Jersey City.....                           | Coast.....      |               |   |   |    | * .12 | .25  | T. | T. |     | .15 |     | .15   |     | .06 |     |    | .15 |     | *     | 2.89 |      | T. |    |    |    |     | .07 |     |    |    |    | 4.72   |
| Lambertville.....                          | Delaware.....   |               |   |   |    | 1.39  | .09  |    |    | T.  | .18 |     | .62   | .03 | .16 | .09 |    | .07 | .12 | .19   | 1.93 |      |    |    |    |    |     | .04 |     |    |    |    | 4.91   |
| Little Falls.                              | Passaic.....    |               |   |   |    | .22   | .85  |    |    |     | .10 | T.  |       | .05 |     | .03 |    |     | .07 |       | 1.60 | .44  |    |    |    |    |     | .04 |     |    |    |    | 3.40   |
| Newark**.....                              | Coast.....      |               |   |   |    | .87   | .10  |    |    |     | .25 |     | .35   |     | .20 |     |    | .12 | .08 | .40   | 1.30 |      |    |    |    |    |     | .10 |     |    |    |    | 3.77   |
| New Brunswick.....                         | Raritan.....    |               |   |   |    | 1.18  | .13  |    |    | T.  | .10 |     | .11   | T.  | T.  |     |    | T.  | .14 | .07   | 2.35 |      |    |    |    |    |     | .04 |     |    |    |    | 4.12   |
| New Milford.....                           | Hackensack..... |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
| Paterson.....                              | Passaic.....    |               |   |   |    | 1.30  | .08  |    |    |     | .15 |     | .04   |     | .05 |     |    | .07 |     |       | 2.35 |      |    |    |    |    |     | .02 |     |    |    |    | 4.06   |
| Plainfield.....                            | Raritan.....    |               |   |   |    | 1.10  | .04  | T. | T. |     | .21 |     | .33   |     | .10 | .12 |    | .17 | *   | .20   | 1.89 |      |    |    |    |    |     | .06 |     |    |    |    | 4.22   |
| Somerville.....                            | Raritan.....    |               |   |   |    | .75   | .09  |    |    | T.  | .16 |     | .08   |     | .12 | .03 |    |     | .19 | .14   | 1.54 |      |    |    |    |    |     |     |     |    |    |    | 3.10   |
| South Orange.....                          | Rahway.....     |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
| Woodcliff Lake.**                          | Hackensack..... |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
| New York, N. Y***                          | Coast.....      |               |   |   | T. | 1.21  | .01  | T. | T. |     | .15 |     | .10   |     | .05 |     |    | .14 | .04 | .33   | 1.76 |      | T. |    |    |    |     | .05 |     |    |    |    | 3.84   |
| <i>The Southern Interior.</i>              |                 |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
| Belle Plain.....                           | Tuckahoe.....   |               |   |   |    | 1.03  | .03  |    |    | T.  |     | .12 |       | .05 |     | T.  | T. |     | .03 | .32   |      | 2.32 |    |    |    |    |     | .18 |     |    |    |    | 4.08   |
| Bridgeton.....                             | Coast.....      |               |   |   |    | 1.08  | .08  |    |    | T.  |     | .10 |       | T.  |     | .08 |    |     | .27 | *     | 2.15 |      |    |    |    |    |     | .15 |     |    |    |    | 3.91   |
| Burlington.....                            | Delaware.....   |               |   |   |    | 1.33  | .05  |    |    |     | .15 |     | .30   | .14 | .03 |     | T. |     | .14 | .25   | 2.06 |      |    |    |    |    |     | .10 |     |    |    |    | 4.55   |
| Clayton.....                               | Delaware.....   |               |   |   |    | 1.25  | .03  |    |    | T.  | .10 |     | .05   | .01 | T.  |     |    |     | .01 | .15   | .25  | 1.60 |    |    |    |    |     | .09 |     |    |    |    | 3.54   |
| Hammonton.....                             | Mullica.....    |               |   |   |    | 1.70  |      |    |    |     | .05 |     | .17   |     |     |     | T. |     | T.  | .20   | .55  | 2.35 |    |    |    |    |     | .20 |     |    |    |    | 5.22   |
| Hightstown.....                            | Raritan.....    |               |   |   |    | .88   | .55  |    |    | T.  | .05 |     | .29   |     | .06 |     |    |     | .20 |       | 2.57 |      |    |    |    |    |     | .08 |     |    |    |    | 4.68   |
| Imlaystown.....                            | Delaware.....   |               |   |   |    | 1.25  | .23  |    |    |     | \$  |     | \$    |     |     | \$  |    |     |     |       | 1.75 |      |    |    |    |    |     | .12 |     |    |    |    | \$     |
| Indian Mills.....                          | Mullica.....    |               |   |   |    | 1.69  | .40  |    |    |     | .14 |     | .20   | .09 | T.  |     |    | T.  | .25 | .48   | 2.73 |      |    |    |    |    |     | .13 |     |    |    |    | 6.11   |
| Lakewood.....                              | Metedeconk..... |               |   |   |    | 1.35  | .04  |    |    | T.  | .15 |     | .40   | .10 | T.  | .06 |    | T.  | .22 | .28   | 3.00 |      |    |    |    |    |     | .12 |     |    |    |    | 5.72   |
| Moorestown.....                            | Delaware.....   |               |   |   |    | 1.25  | .01  |    |    |     | .07 |     | .23   |     | T.  |     |    |     | .27 | .37   | 2.10 |      |    |    |    |    |     | .11 |     |    |    |    | 4.41   |
| Northfield.....                            | Coast.....      |               |   |   |    | .95   | T.   |    |    | T.  | .14 |     | .05   | .02 |     |     | T. | T.  | .30 | .38   | 1.95 |      |    |    |    |    |     | .18 |     |    |    |    | 3.97   |
| Pleasantville.....                         | Coast.....      |               |   |   |    | .42   | .83  | T. | T. | T.  | .04 | .01 | .07   | .09 |     | T.  | T. |     | .32 |       | 1.79 | .50  |    |    |    |    |     | .04 |     |    |    |    | 4.11   |
| Runyon.....                                | Coast.....      |               |   |   |    | 1.29  | .04  |    |    | T.  | .13 |     | \$    |     | \$  |     |    | \$  |     | \$    | 1.98 |      |    |    |    |    |     | .02 |     |    |    |    | \$     |
| Trenton***.....                            | Delaware.....   |               |   |   | T. | .91   | .02  |    |    | T.  | .18 |     | .33   |     | .02 | .03 |    | .18 | .02 | .55   | 1.15 |      |    |    |    |    |     | .03 | .02 |    |    |    | 3.44   |
| Tuckerton.....                             | Coast.....      |               |   |   |    | 1.40  |      |    |    |     | \$  |     | \$    |     | \$  |     |    | T.  | .26 | \$    | 2.80 |      |    |    |    |    |     | .10 |     |    |    |    | \$     |
| Vineland.....                              | Maurice.....    |               |   |   |    | 1.42  | .15  |    |    |     | .18 |     | .09   |     | T.  | T.  |    | T.  |     | * .34 | 3.45 |      |    |    |    |    |     | .12 |     |    |    |    | 5.67   |
| Philadelphia, Pa.....                      | Delaware.....   |               |   |   |    | 1.32  | T.   |    |    | .01 |     | .17 |       | .17 |     | .02 | T. |     | .12 |       | .63  | 1.99 |    |    |    |    |     | .08 | .06 |    |    |    | 4.57   |
| <i>The Sea Coast.</i>                      |                 |               |   |   |    |       |      |    |    |     |     |     |       |     |     |     |    |     |     |       |      |      |    |    |    |    |     |     |     |    |    |    |        |
| Asbury Park.....                           | Coast.....      |               |   |   |    | 1.70  |      |    |    |     | *   |     | .30   |     |     |     |    |     | *   | .45   | 1.70 |      |    |    |    |    |     | .10 |     |    |    |    | 4.25   |
| Atlantic City***                           | do.....         |               |   |   |    | 1.05  | T.   |    |    | T.  | .16 |     | .19   |     | T.  | .02 |    | .23 | .12 | .88   | 1.22 |      |    |    |    |    |     | .18 | T.  |    |    |    | 4.05   |
| Cape May City.....                         | do.....         |               |   |   |    | .31   | .01  |    |    |     | .04 |     | .02   |     |     |     |    | .11 | .06 | .36   | 1.45 |      |    |    |    |    |     | .15 |     |    |    |    | 2.51   |
| Long Branch**.....                         | do.....         |               |   |   |    | 1.79  | .02  |    |    | .01 |     | .19 |       | .37 |     | .03 | T. |     | .02 |       | .32  | 2.89 | T. |    |    |    |     | .05 |     |    |    |    | 5.69   |
| Sandy Hook***.....                         | do.....         |               |   |   | T. | 1.43  | .02  |    |    | .01 |     | .11 |       | .16 |     | .02 |    | .16 | .02 | .22   | 2.21 |      |    |    |    |    |     | .05 |     |    |    |    | 4.41   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine                       |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|-------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine. |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |                                     |
| Atlantic City.....    | 30.08         | 30.67    | 19    | 29.51   | 5     | 18               | 68              | se.        | 20    | 77                                         | 74                                         | 66                                  |
| Cape May City.....    | 30.12         | 30.71    | 24    | 29.66   | 5     | 10               | 46              | se.        | 20    | 79                                         | 75                                         | .....                               |
| Long Branch.....      |               |          |       |         |       |                  | 60              | e.         | 20    |                                            |                                            | .....                               |
| Newark.....           |               |          |       |         |       |                  |                 |            |       |                                            |                                            | .....                               |
| New York, N. Y.....   | 30.07         | 30.73    | 19    | 29.59   | 20    | 18               | 55              | nw.        | 21    | 69                                         | 70                                         | 53                                  |
| Philadelphia, Pa..... | 30.09         | 30.75    | 19    | 29.65   | 5     | 11               | 34              | e.         | 5     | 69                                         | 60                                         | 61                                  |
| Sandy Hook.....       | 30.06         | 30.71    | 19    | 29.61   | 10    | 18               | 56              | ne.        | 5     | 72                                         | 68                                         | 55                                  |
| Trenton.....          | 30.07         | 30.69    | 19    | 29.52   | 5     | 13               | 44              | e.         | 5     | 61                                         | 64                                         | 57                                  |

\* 7 a. m. † 9 p. m.



## Daily Temperatures for February, 1924.

| Stations.                            | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31                | Mean.             |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Belvidere.....                       | Maximum | 26    | 21    | 31    | 26    | 25    | 30    | 32    | 32    | 33    | 33    | 42    | 30    | 27    | 27    | 35    | 31    | 22    | 39    | 28    | 33    | 32    | 28    | 30    | 31    | 35    | 45    | 40    | 38    | 38    | .....             | 33.1 <sup>f</sup> |
| Charlotteburg.....                   | Minimum | 39    | 40    | 43    | 34    | 32    | 35    | 35    | 29    | ..... | 35    | 34    | 21    | 26    | 36    | 33    | 30    | 33    | 30    | 34    | 34    | 27    | 25    | 32    | 39    | 43    | 44    | 38    | 36    | ..... | 34.0 <sup>b</sup> |                   |
| Dover.....                           | Maximum | 18    | ..... | 30    | 28    | 24    | 29    | 20    | 18    | 8     | 10    | 20    | 19    | 5     | 10    | 18    | 10    | 9     | 13    | 10    | 14    | 20    | 15    | 5     | 2     | 2     | 18    | 20    | 20    | 19    | .....             | 15.5 <sup>a</sup> |
| Dover.....                           | Minimum | 23    | 24    | 34    | 29    | 27    | 30    | 22    | 19    | 10    | 16    | 20    | 16    | 8     | 9     | 18    | 13    | 12    | 14    | 13    | 16    | 22    | 15    | 11    | 7     | 8     | 21    | 21    | 24    | 20    | .....             | 33.9 <sup>a</sup> |
| Layton.....                          | Maximum | 36    | 40    | 43    | 36    | 32    | 36    | 35    | 31    | 32    | 33    | 38    | 32    | 23    | 26    | 35    | 29    | 33    | 36    | 27    | 33    | 31    | 27    | 35    | 38    | 42    | 50    | 45    | 39    | 45    | .....             | 18.0              |
| Layton.....                          | Minimum | 14    | 16    | 39    | 26    | 25    | 30    | 20    | 23    | 10    | 14    | 18    | 19    | 5     | 1     | 14    | 12    | 7     | 5     | 10    | 11    | 19    | 13    | 0     | -2    | -3    | 17    | 9     | 25    | 23    | .....             | 34.8              |
| Newton.....                          | Maximum | 38    | 42    | 43    | 36    | 33    | 35    | 33    | 31    | 33    | 32    | 38    | 32    | 25    | ..... | 35    | 30    | 27    | 32    | 27    | 33    | 36    | 27    | ..... | 31    | 33    | 40    | 37    | 38    | 36    | .....             | 14.3              |
| Newton.....                          | Minimum | 20    | 21    | 33    | 23    | 20    | 28    | 21    | 21    | 10    | 17    | 18    | 15    | 5     | 5     | 17    | 8     | 10    | 10    | 9     | 10    | 17    | 14    | 11    | 5     | 8     | 18    | 16    | 18    | 20    | .....             | 33.8 <sup>b</sup> |
| Phillipsburg.....                    | Maximum | 40    | 42    | 41    | 41    | 40    | 36    | 34    | 30    | 34    | 34    | 40    | 34    | 23    | 29    | 34    | 30    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |
| Phillipsburg.....                    | Minimum | 30    | 26    | 30    | 32    | 31    | 33    | 26    | 23    | 16    | 23    | 24    | 21    | 9     | 7     | 22    | 20    | 21    | 14    | 14    | 16    | ..... | 16    | 13    | 12    | 10    | 26    | 22    | 26    | 21    | .....             | 36.1 <sup>b</sup> |
| Sussex.....                          | Maximum | 38    | 43    | 48    | 36    | 35    | 35    | 34    | 33    | 35    | 35    | 39    | 34    | 25    | 26    | 40    | 32    | 25    | 35    | 28    | 34    | 35    | 30    | 26    | 33    | 45    | 40    | 39    | 40    | ..... | 20.9 <sup>a</sup> |                   |
| Sussex.....                          | Minimum | 19    | 16    | 34    | 24    | 23    | 31    | 23    | 23    | 11    | 15    | 21    | 15    | 6     | 5     | 14    | 12    | 10    | 12    | 10    | 11    | 20    | 15    | 0     | 3     | ..... | 15    | 12    | 21    | 20    | .....             | 15.8 <sup>a</sup> |
| The Red Sandstone Plain.             |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Bergen Point.....                    | Maximum | 39    | 43    | 48    | 40    | 37    | 38    | 37    | 32    | 37    | 36    | 38    | 36    | 27    | 31    | 37    | 32    | ..... | 34    | 28    | 38    | 36    | 31    | 32    | 33    | 35    | 41    | 39    | 42    | 38    | .....             | 36.2 <sup>a</sup> |
| Bergen Point.....                    | Minimum | 26    | 28    | 35    | 33    | 30    | 31    | 27    | 27    | 15    | 25    | 22    | 10    | 18    | 25    | 17    | 15    | 18    | 20    | 20    | 26    | 20    | 19    | 14    | 20    | 25    | 25    | 28    | 25    | ..... | 23.1              |                   |
| Boonton§§.....                       | Maximum | 37    | 46    | 47    | 35    | 34    | 36    | 32    | 33    | 33    | 35    | 39    | 28    | 26    | 29    | 38    | 29    | 27    | 37    | 28    | 38    | 32    | 29    | 27    | 34    | 37    | 45    | 41    | 39    | 38    | .....             | 34.8              |
| Boonton§§.....                       | Minimum | 19    | 16    | 24    | 30    | 26    | 28    | 23    | 23    | 11    | 13    | 14    | 23    | 7     | 6     | 11    | 12    | 12    | 11    | 12    | 22    | 16    | 4     | 8     | 7     | 14    | 16    | 25    | 16    | ..... | 15.9              |                   |
| Elizabeth.....                       | Maximum | 40    | 45    | 47    | 40    | 36    | 38    | 38    | 31    | 35    | 36    | 39    | 36    | 26    | 29    | 40    | 32    | 28    | 35    | 30    | 39    | 36    | 30    | 29    | 34    | 36    | 43    | 40    | 41    | 39    | .....             | 36.1              |
| Elizabeth.....                       | Minimum | 26    | 24    | 35    | 33    | 30    | 31    | 26    | 26    | 14    | 21    | 21    | 24    | 6     | 10    | 21    | 16    | 14    | 18    | 17    | 19    | 26    | 18    | 14    | 9     | 14    | 23    | 26    | 27    | 22    | .....             | 21.1              |
| Flemington.....                      | Maximum | 43    | 49    | 48    | 43    | 40    | 41    | 37    | 31    | 39    | 38    | 45    | 37    | 30    | 32    | 38    | 34    | 30    | 39    | 32    | 37    | 37    | 33    | 34    | 38    | 37    | 45    | 42    | 41    | 44    | .....             | 38.4              |
| Flemington.....                      | Minimum | 26    | 24    | 31    | 30    | 30    | 32    | 25    | 23    | 14    | 19    | 18    | 23    | 9     | 2     | 12    | 18    | 14    | 13    | 15    | 17    | 23    | 17    | 10    | 9     | 8     | 24    | 17    | 25    | 19    | .....             | 18.9              |
| Highwood.....                        | Maximum | 35    | 43    | 47    | 37    | 35    | 35    | 35    | 32    | 34    | 35    | 37    | 29    | 25    | 27    | 38    | 32    | 28    | 31    | 23    | 38    | 36    | 30    | 27    | 32    | 35    | 41    | 41    | 41    | 37    | .....             | 34.3              |
| Highwood.....                        | Minimum | 20    | 18    | 31    | 31    | 28    | 30    | 25    | 25    | 13    | 17    | 21    | 20    | 6     | 5     | 11    | 15    | 12    | 16    | 15    | 18    | 26    | 20    | 9     | 4     | 8     | 20    | 21    | 22    | ..... | 18.2              |                   |
| Jersey City.....                     | Maximum | 39    | 47    | 47    | 40    | 38    | 41    | 34    | 37    | 36    | 36    | 41    | 37    | 28    | 31    | 40    | 31    | 27    | 35    | 26    | 38    | 33    | 31    | 32    | 35    | 37    | 44    | 43    | 41    | 40    | .....             | 36.7              |
| Jersey City.....                     | Minimum | 27    | 31    | 34    | 34    | 30    | 32    | 26    | 26    | 14    | 24    | 24    | 21    | 9     | 15    | 22    | 16    | 14    | 19    | 19    | 25    | 25    | 19    | 16    | 13    | 19    | 25    | 31    | 29    | 25    | .....             | 22.9              |
| Lambertville.....                    | Maximum | 39    | 44    | 43    | 40    | 35    | 38    | 34    | 37    | 32    | 33    | 39    | 33    | 23    | 30    | 36    | 28    | 28    | 33    | 27    | 36    | 36    | 28    | 28    | 34    | 38    | 39    | 38    | 36    | ..... | 34.2              |                   |
| Lambertville.....                    | Minimum | 27    | 26    | 34    | 31    | 30    | 32    | 24    | 23    | 14    | 22    | 20    | 22    | 8     | 8     | 18    | 12    | 13    | 15    | 14    | 17    | 22    | 17    | 14    | 9     | 14    | 25    | 24    | 25    | 19    | .....             | 20.0              |
| Little Falls§§.....                  | Maximum | 35    | 48    | 49    | 35    | 34    | 38    | 33    | 33    | 36    | 35    | 40    | 28    | 28    | 27    | 38    | 32    | 28    | 36    | 33    | 35    | 32    | 31    | 30    | 35    | 40    | 46    | 42    | 42    | 40    | .....             | 35.8              |
| Little Falls§§.....                  | Minimum | 22    | 19    | 26    | 32    | 28    | 30    | 25    | 25    | 12    | 17    | 20    | 25    | 7     | 10    | 15    | 14    | 13    | 15    | 14    | 15    | 25    | 19    | 15    | 9     | 10    | 19    | 17    | 26    | 23    | .....             | 18.9              |
| Newark.....                          | Maximum | 38    | 44    | 46    | 36    | 34    | 37    | 34    | 35    | 35    | 31    | 38    | 30    | 25    | 31    | 38    | 30    | 28    | 35    | 23    | 38    | 32    | 29    | 29    | 33    | 38    | 43    | 42    | 42    | 41    | .....             | 35.0              |
| Newark.....                          | Minimum | 27    | 28    | 33    | 30    | 29    | 30    | 29    | 23    | 16    | 25    | 26    | 15    | 10    | 14    | 20    | 17    | 16    | 20    | 16    | 24    | 24    | 20    | 16    | 15    | 20    | 28    | 28    | 30    | 27    | .....             | 22.6              |
| New Brunswick.....                   | Maximum | 39    | 46    | 45    | 41    | 37    | 39    | 37    | 31    | 34    | 36    | 39    | 34    | 25    | 30    | 36    | 31    | 28    | 37    | 31    | 39    | 38    | 28    | 28    | 35    | 41    | 40    | 39    | 36    | ..... | 35.5              |                   |
| New Brunswick.....                   | Minimum | 26    | 24    | 34    | 32    | 30    | 30    | 25    | 26    | 14    | 20    | 21    | 23    | 10    | 7     | 16    | 16    | 13    | 16    | 17    | 19    | 25    | 19    | 14    | 8     | 12    | 25    | 24    | 26    | 21    | .....             | 20.4              |
| Paterson.....                        | Maximum | 38    | 44    | 49    | 45    | 35    | 37    | 37    | 35    | 38    | 35    | 40    | 35    | 28    | 28    | 39    | 34    | 28    | 36    | 27    | 38    | 36    | 32    | 32    | 36    | 36    | 44    | 41    | 43    | 41    | .....             | 36.8              |
| Paterson.....                        | Minimum | 24    | 24    | 35    | 33    | 34    | 31    | 27    | 26    | 15    | 21    | 24    | 23    | 10    | 14    | 21    | 17    | 15    | 17    | 15    | 18    | 26    | 20    | 16    | 12    | 16    | 23    | 23    | 28    | 24    | .....             | 21.8              |
| Plainfield.....                      | Maximum | 39    | 48    | 47    | 40    | 38    | 41    | 34    | 32    | 37    | 36    | 40    | 28    | 27    | 29    | 39    | 32    | 27    | 36    | 23    | 35    | 33    | 32    | 32    | 34    | 37    | 42    | 41    | 41    | 38    | .....             | 35.8              |
| Plainfield.....                      | Minimum | 24    | 20    | 31    | 32    | 30    | 31    | 25    | 25    | 13    | 17    | 22    | 22    | 3     | 6     | 13    | 15    | 13    | 17    | 16    | 18    | 25    | 17    | 13    | 8     | 9     | 23    | 30    | 27    | 21    | .....             | 19.2              |
| Somerville.....                      | Maximum | 40    | 48    | 46    | 44    | 37    | 40    | 37    | 37    | 39    | 41    | 38    | 28    | 30    | 39    | 32    | 27    | 39    | 31    | 35    | 34    | 31    | 32    | 32    | 38    | 42    | 40    | 42    | 40    | ..... | 37.0              |                   |
| Somerville.....                      | Minimum | 25    | 21    | 30    | 32    | 31    | 33    | 26    | 25    | 14    | 17    | 19    | 24    | 9     | 6     | 12    | 13    | 14    | 16    | 16    | 18    | 25    | 17    | 9     | 9     | 10    | 25    | 24    | 28    | 19    | .....             | 19.6              |
| South Orange.....                    | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |
| South Orange.....                    | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |
| New York, N. Y.....                  | Maximum | 38    | 46    | 46    | 40    | 37    | 40    | 34    | 32    | 35    | 34    | 39    | 35    | 26    | 31    | 38    | 30    | 27    | 34    | 26    | 45    | 33    | 29    | 29    | 33    | 36    | 43    | 42    | 41    | 40    | .....             | 35.8              |
| New York, N. Y.....                  | Minimum | 27    | 31    | 34    | 30    | 29    | 32    | 26    | 21    | 14    | 26    | 24    | 15    | 9     | 15    | 24    | 16    | 14    | 19    | 19    | 26    | 24    | 19    | 15    | 13    | 20    | 26    | 32    | 29    | 28    | .....             | 22.6              |
| The Southern Interior.               |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Belle Plain.....                     | Maximum | 46    | 49    | 53    | 55    | 56    | 55    | 37    | 38    | 38    | 36    | ..... | 42    | 31    | 37    | 41    | 36    | 31    | 38    | 30    | 52    | 41    | 32    | 35    | 37    | 43    | 42    | 38    | 43    | 40    | .....             | 41.0 <sup>a</sup> |
| Belle Plain.....                     | Minimum | 23    | 25    | 25    | 33    | 41    | 36    | 26    | 22    | 14    | 15    | ..... | 24    | 15    | 8     | 23    | 16    | 16    | 23    | 12    | 29    | 28    | 27    | 13    | 9     | 22    | 27    | 30    | 27    | 17    | .....             | 22.4 <sup>a</sup> |
| Bridgeton.....                       | Maximum | 52    | 50    | 52    | 62    | 53    | 53    | 36    | 34    | 37    | 36    | 42    | 42    | 32    | 38    | 42    | 35    | 30    | 50    | 42    |       |       |       |       |       |       |       |       |       |       |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXIX.

MARCH, 1924.

No. 3.

### GENERAL SUMMARY.

The weather during March was more than ordinarily typical of the transition period from winter to spring. Warmth was normal, and there was a slight excess of sunshine and clear sky. On the other hand the pressure was nearly a quarter of an inch subnormal, and this was made up largely of successive periods of low pressure without notable extremes. As would ordinarily follow, the wind movement was great and high velocities were frequent and at times very continuous. During the month there were some ten days with wind velocities reaching 40 miles or more per hour in the interior, and more frequent occurrences and higher velocities prevailed at the coast. The greatest period of consecutive gales was from the 7th to the 11th, and 15th to 17th, inclusive. Reactions toward the milder conditions of spring were almost entirely lacking, and the feeling of winter in the air persisted to the close of the month, particularly at night.

Temperatures were slightly above normal the first and last decades of the month, and subnormal during the middle decade.

There were moderate excesses of rain over the southeastern quarter of the State, but the deficiencies elsewhere more than overcame the difference, and natural water resources were not up to normal levels.

Storm warnings were displayed along the coast on the 8th, 10th, 11th, 12th, 20th, 21st, 26th, and 29th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 37 stations was 38.8°, which was normal. The highest temperature was 76° at Pleasantville on the 30th, and the lowest, 5°, at Layton on the 2d. The highest monthly mean temperature was 41.6° at Clayton, and the lowest, 35.1° at Charlotteburg. The greatest daily range of temperature was 45° at Pleasantville on the 28th.

The temperature departure from the normal for the year 1924 to date by sections, is: The Highlands, +0.3°; Red Sandstone Plain, +0.3°; Southern Interior, +0.2°; Sea Coast, +0.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 45 stations was 2.51 inches, which was 1.32 inches below the normal. The greatest monthly precipitation was 5.69 inches at Tuckerton, and the least, 0.80 inch at Woodcliff Lake. The average total snowfall of 19 selected stations was 2.7 inches, which was 3.2 inches below the normal; this average ranged from 4.5 inches in the Highlands to 0.2 inch on the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 3.80 inches at Tuckerton on the 11-12th. The average number of days on which .01 inch or more of precipitation fell was 8, which was 3 less than the normal.

The precipitation accumulated departure for the year 1924 to date by sections, is: The Highlands, -2.11 inches; Red Sandstone Plain, -0.84 inch; Southern Interior, +1.79 inches; Sea Coast, +0.06 inch.

### WIND.

The prevailing wind direction was from the northwest, with an average velocity of 17 miles per hour, which was 2 miles above the normal. The highest wind velocity, sustained for 5

consecutive minutes, was 88 miles per hour from the northeast on the 11th at Atlantic City. Other dates with high winds were the 7th, 8th, 10th, 15th, 16th, 17th, 21st, and 30th.

### SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 16, which was 2 more than the normal; partly cloudy, 6, which was 2 less than the normal; cloudy, 9, or normal. The mean per cent of possible sunshine was 64, which was 3 per cent above the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 3.5 feet, and the highest, 7.0 feet on the 31st. At Trenton the mean daily stage was 2.4 feet, which was 1.7 feet below the normal; the highest stage was 4.6 feet on the 30th.

The mean atmospheric pressure, reduced to sea level, was 29.79 inches, which was 0.22 inch below the normal. The highest reading was 30.23 inches at Trenton on the 31st, and the lowest, 28.94 inches at Atlantic City on the 11th.

Dense fog was reported on the 3d, 5th, 6th, 7th, 8th, and 30th. Sleet occurred in portions of northern and central districts on the 11th and 26th. A thunderstorm was recorded at all but a few southern stations during the night of the 29-30th. Light hail fell during the thunderstorm at a few stations.

### MR. SAMUEL J. HIXSON.

Mr. Samuel J. Hixson, cooperative observer at Belvidere, N. J., since July 1, 1891, died on January 23d, 1924, in his 91st year. His generous devotion to a self imposed duty which he efficiently fulfilled, is worthy of thoughtful consideration and emulation.

### COMPARATIVE DATA FOR MARCH.

| Year.     | Temperature. |          |         | Precipitation. |           |        | No. of days. |                |         |                        |
|-----------|--------------|----------|---------|----------------|-----------|--------|--------------|----------------|---------|------------------------|
|           | Mean.        | Highest. | Lowest. | Mean.          | Greatest. | Least. | Clear.       | Partly cloudy. | Cloudy. | .01 inch or more prec. |
| 1885..... | 30.4         | 66       | 2       | 1.10           | 2.29      | 0.23   | .....        | .....          | .....   | .....                  |
| 1886..... | 37.7         | 70       | 9       | 3.70           | 5.27      | 2.59   | .....        | .....          | .....   | .....                  |
| 1887..... | 37.7         | 61       | 8       | 3.34           | 5.45      | 2.19   | .....        | .....          | .....   | .....                  |
| 1888..... | 32.8         | 72       | 0       | 5.71           | 8.22      | 3.75   | .....        | .....          | .....   | .....                  |
| 1889..... | 40.5         | 67       | 19      | 3.79           | 6.49      | 1.98   | .....        | .....          | .....   | .....                  |
| 1890..... | 37.6         | 75       | 0       | 6.08           | 7.92      | 4.14   | .....        | .....          | .....   | .....                  |
| 1891..... | 37.2         | 68       | 4       | 5.06           | 8.02      | 2.05   | 8            | 10             | 13      | 12                     |
| 1892..... | 34.4         | 64       | 6       | 4.75           | 7.21      | 3.11   | 10           | 12             | 9       | 9                      |
| 1893..... | 37.0         | 68       | 6       | 3.73           | 6.26      | 2.36   | 10           | 10             | 11      | 10                     |
| 1894..... | 44.2         | 83       | 12      | 1.77           | 2.65      | 1.09   | 12           | 11             | 8       | 10                     |
| 1895..... | 36.7         | 72       | 7       | 9.16           | 4.66      | 1.77   | 12           | 8              | 11      | 10                     |
| 1896..... | 34.0         | 69       | -8      | 5.34           | 7.38      | 3.14   | 13           | 8              | 10      | 11                     |
| 1897..... | 40.0         | 77       | 18      | 2.78           | 4.32      | 1.55   | 11           | 9              | 11      | 10                     |
| 1898..... | 45.1         | 77       | 16      | 3.33           | 4.25      | 2.56   | 9            | 10             | 12      | 12                     |
| 1899..... | 38.6         | 73       | 13      | 6.64           | 9.58      | 3.45   | 7            | 10             | 14      | 13                     |
| 1900..... | 35.6         | 67       | -9      | 3.51           | 4.96      | 2.48   | 12           | 12             | 7       | 10                     |
| 1901..... | 39.2         | 75       | -8      | 4.64           | 8.07      | 2.40   | 9            | 10             | 12      | 12                     |
| 1902..... | 43.9         | 77       | 0       | 4.34           | 7.20      | 3.16   | 12           | 10             | 9       | 11                     |
| 1903..... | 47.6         | 79       | 13      | 5.13           | 8.53      | 3.60   | 11           | 8              | 12      | 10                     |
| 1904..... | 37.2         | 72       | 1       | 3.43           | 4.76      | 2.02   | 11           | 8              | 12      | 13                     |
| 1905..... | 39.8         | 87       | -7      | 3.95           | 5.06      | 2.80   | 14           | 8              | 9       | 12                     |
| 1906..... | 34.4         | 62       | -15     | 5.09           | 6.77      | 2.91   | 10           | 9              | 12      | 11                     |
| 1907..... | 41.2         | 88       | -11     | 3.04           | 4.38      | 1.81   | 13           | 10             | 8       | 10                     |
| 1908..... | 41.8         | 89       | 7       | 2.80           | 4.92      | 1.06   | 11           | 9              | 11      | 12                     |
| 1909..... | 38.3         | 74       | -6      | 3.43           | 4.66      | 2.31   | 12           | 10             | 9       | 13                     |
| 1910..... | 44.5         | 88       | 10      | 1.22           | 2.36      | 0.29   | 14           | 10             | 7       | 6                      |
| 1911..... | 37.6         | 76       | 3       | 3.38           | 4.50      | 2.64   | 10           | 12             | 9       | 11                     |
| 1912..... | 36.9         | 72       | 3       | 7.61           | 9.61      | 5.95   | 9            | 11             | 11      | 14                     |
| 1913..... | 44.8         | 79       | 1       | 5.15           | 7.73      | 2.47   | 10           | 9              | 12      | 12                     |
| 1914..... | 35.4         | 75       | -6      | 3.65           | 6.45      | 2.02   | 13           | 10             | 8       | 10                     |
| 1915..... | 36.1         | 63       | 11      | 1.13           | 1.65      | 0.58   | 20           | 7              | 4       | 3                      |
| 1916..... | 31.7         | 71       | -7      | 3.48           | 4.96      | 2.38   | 13           | 8              | 10      | 12                     |
| 1917..... | 38.2         | 72       | 0       | 4.65           | 7.14      | 2.28   | 12           | 8              | 11      | 13                     |
| 1918..... | 41.8         | 82       | 8       | 2.06           | 3.76      | 0.99   | 17           | 7              | 7       | 9                      |
| 1919..... | 43.2         | 77       | 12      | 5.32           | 7.40      | 3.77   | 14           | 7              | 10      | 13                     |
| 1920..... | 39.4         | 79       | -8      | 3.80           | 5.36      | 2.29   | 17           | 5              | 9       | 10                     |
| 1921..... | 49.1         | 92       | 11      | 3.03           | 4.65      | 1.80   | 14           | 10             | 7       | 11                     |
| 1922..... | 41.1         | 82       | 2       | 4.52           | 7.10      | 3.42   | 12           | 6              | 13      | 13                     |
| 1923..... | 38.0         | 81       | -3      | 4.09           | 6.73      | 2.13   | 17           | 6              | 8       | 10                     |
| 1924..... | 38.8         | 76       | 5       | 2.51           | 5.69      | 0.80   | 16           | 6              | 9       | 8                      |



## Climatological Data for March, 1924.

| Stations.                            | Counties.       | Elevation, feet. | Length of record, years. | Temperature, in degrees Fahr. |                            |                 |       |         |       | Precipitation, in inches. |         |                            |                       | No. of days.               |                                |        | Prevailing direction of wind. | Observers |                             |
|--------------------------------------|-----------------|------------------|--------------------------|-------------------------------|----------------------------|-----------------|-------|---------|-------|---------------------------|---------|----------------------------|-----------------------|----------------------------|--------------------------------|--------|-------------------------------|-----------|-----------------------------|
|                                      |                 |                  |                          | Mean.                         | Departure from the normal. | Highest.        | Date. | Lowest. | Date. | Greatest daily range.     | To tal. | Departure from the normal. | Greatest in 24 hours. | Total snowfall (unmelted). | Precipitation 0.1 in. or more. | Clear. |                               |           | Pt. cloudy.                 |
| The Highlands and Kiltatinny Valley. |                 |                  |                          |                               |                            |                 |       |         |       |                           |         |                            |                       |                            |                                |        |                               |           |                             |
| Belvidere.....                       | Warren.....     | 289              | 33                       | 37.0                          | -1.1                       | 65              | 28†   | 13      | 1     | 36                        | 1.83    | -2.02                      | 0.89                  |                            | 8                              | 24     | 3                             | 4         | Miss C. S. Hixson.          |
| Charlotteburg.....                   | Passaic.....    | 719              | 32                       | 35.1                          | -0.7                       | 64              | 30    | 14      | 2     | 38                        | 1.09    | -3.11                      | 0.45                  | 4.5                        | 4                              | 9      | 6                             | 16        | Newark Water Dept.          |
| Culvers Lakell.....                  | Sussex.....     | 848              | 23                       |                               |                            |                 |       | 10      | 2     |                           | 1.14    | -2.33                      | 0.35                  | 6.5                        | 7                              | 17     | 5                             | 9         | Brice E. Riker.             |
| Dover.....                           | Morris.....     | 600              | 40                       | 36.5                          | +1.3                       | 65              | 30    | 19      | 2†    | 37                        | 1.39    | -2.60                      | 0.60                  | 3.1                        | 7                              | 12     | 12                            | 7         | William C. Harris.          |
| Layton.....                          | Sussex.....     | 480              | 23                       | 35.2                          | -0.4                       | 63              | 30    | 5       | 2     | 37                        | 1.58    | -1.79                      | 0.53                  | 5.0                        | 6                              | 17     | 4                             | 10        | A. M. Depue.                |
| Newton.....                          | Sussex.....     | 769              | 41                       | 36.2                          | +0.7                       | 64              | 30    | 15      | 2     | 38                        | 0.99    | -2.58                      | 0.50                  | 3.5                        | 6                              | 18     | 3                             | 10        | Irving J. Kern.             |
| Phillipsburg.....                    | Warren.....     | 363              | 41                       | 38.4                          | +0.3                       | 67              | 28    | 20      | 1     | 34                        | 1.07    | -2.47                      | 0.51                  | .....                      | 4                              | 22     | 2                             | 7         | Town Engineer.              |
| Sussex.....                          | Sussex.....     | 442              | 30                       | 36.4                          | +0.1                       | 65              | 30    | 10      | 2     | 37                        | 1.13    | -2.46                      | 0.42                  | .....                      | 6                              | 20     | 3                             | 8         | A. J. W. Mowatt.            |
| Means and extremes...                |                 |                  |                          | 36.4                          | 0.0                        | 67              | 28    | 5       | 2     | 38                        | 1.40    | -2.29                      | 0.89                  | 4.5                        | 6                              | 17     | 5                             | 9         | nw.                         |
| The Red Sandstone Plain.             |                 |                  |                          |                               |                            |                 |       |         |       |                           |         |                            |                       |                            |                                |        |                               |           |                             |
| Bergen Point††.....                  | Hudson.....     | 37               | 27                       | 39.4                          | -0.1                       | 66              | 28†   | 24      | 15    | 30                        | 1.57    | -2.43                      | 0.55                  | 5.0                        | 6                              | 9      | 15                            | 7         | William H. Mitchell.        |
| Boonton.....                         | Morris.....     | 400              | §34                      |                               |                            |                 |       | 17      | 1     | ....                      | 0.92    | -3.02                      | 0.35                  | .....                      | 6                              |        |                               |           | John Kline.                 |
| Chatham.....                         | Morris.....     | 185              | 20                       |                               |                            |                 |       |         |       |                           | 2.74    | -1.00                      | 1.19                  | .....                      | 6                              | 19     | 8                             | 4         | Paul Molitor, Sr.           |
| Elizabeth.....                       | Union.....      | 45               | 45                       | 39.8                          | +1.0                       | 68              | 28†   | 20      |       | 1                         | 35      | 2.10                       | -2.12                 | 1.06                       | 2.0                            | 9      | 12                            | 7         | L. B. Bonnett.              |
| Flemington.....                      | Hunterdon.....  | 140              | §38                      | 39.4                          | -0.7                       | 70              | 28    | 14      | 1     | 40                        | 1.65    | -2.24                      | 0.63                  | 3.0                        | 8                              | 21     | 3                             | 7         | Hiram E. Deats.             |
| Highwood††.....                      | Bergen.....     | 90               | 36                       | 36.0 <sup>a</sup>             | -1.0                       | .....           |       | 20      | 1†    | 35†                       | 1.53    | -2.65                      | 0.57                  | 3.0                        | 6                              | 15     | 6                             | 10        | Charles J. Bates.           |
| Jersey City.....                     | Hudson.....     | 10               | 26                       | 39.6                          | +0.4                       | 68              | 30    | 24      | 2†    | 31                        | 2.51    | -1.64                      | 1.08                  | 3.4                        | 9                              | 14     | 9                             | 8         | S. K. Pearson, Jr.          |
| Lambertville.....                    | Hunterdon.....  | 370              | 37                       | 37.4                          | -2.0                       | 66              | 28†   | 18      | 1     | 34                        | 2.86    | -1.17                      | 0.90                  | 10.0                       | 10                             | 16     | 6                             | 9         | Wm. J. Lauderdale.          |
| Little Falls.....                    | Passaic.....    | 180              | §21                      | 37.8                          | -0.2                       | 72              | 30    | 20      | 1†    | 37                        | 1.41    | -2.18                      | 0.47                  | 1.1                        | 6                              | 16     | 7                             | 8         | Passaic Consolid. Water Co. |
| Newark.....                          | Essex.....      | 159              | 82                       | 40.0                          | +1.0                       | 70              | 28    | 22      | 15    | 31                        | 2.07    | -1.80                      | 0.60                  | 7.2                        | 7                              | 16     | 7                             | 8         | Prof. William Wiener.       |
| New Brunswick.....                   | Middlesex.....  | 110              | 71                       | 38.8                          | 0.0                        | 70              | 30    | 18      | 1     | 36                        | 2.29    | -1.52                      | 0.99                  | 1.5                        | 9                              | 16     | 7                             | 8         | N. J. Experiment Station.   |
| New Milford††.....                   | Bergen.....     | 9                | 4                        |                               |                            |                 |       |         |       |                           | 1.62    |                            | 0.86                  |                            | 8                              |        |                               |           | Hackensack Water Co.        |
| Paterson.....                        | Passaic.....    | 80               | 53                       | 40.2 <sup>b</sup>             | +1.4                       | 69              | 28†   | 23      | 2†    | 34                        | 1.48    | -2.90                      | 0.64                  | 1.0                        | 8                              | 14     | 5                             | 12        | Marion T. Probert.          |
| Plainfield.....                      | Union.....      | 120              | 36                       | 38.3                          | -0.5                       | 69              | 30    | 17      | 1     | 37                        | 2.53    | -1.74                      | 1.03                  | 4.6                        | 10                             | 14     | 9                             | 8         | E. D. Pearson.              |
| Somerville.....                      | Somerset.....   | 70               | 41                       | 39.3                          | +1.1                       | 70              | 30    | 16      | 1     | 38                        | 1.81    | -2.15                      | 0.75                  | 2.0                        | 5                              | 23     | 0                             | 8         | H. B. TenEyck.              |
| South Orange.....                    | Essex.....      | 200              | 54                       |                               |                            |                 |       |         |       |                           | ?       |                            |                       |                            |                                |        |                               |           | F. H. Meeder.               |
| Woodcliff Lakell.....                | Bergen.....     | 100              | 4                        |                               |                            |                 |       |         |       |                           | 0.80    |                            | 0.37                  |                            | 5                              |        |                               |           | Hackensack Water Co.        |
| New York, N. Y.....                  |                 | 365              | 54                       | 38.7                          | +1.0                       | 65              | 28    | 23      | 15    | 28                        | 1.65    | -2.45                      | 0.94                  | 3.0                        | 8                              | 9      | 11                            | 11        | U. S. Weather Bureau.       |
| Means and extremes...                |                 |                  |                          | 38.8                          | 0.0                        | 72              | 30    | 14      | 1     | 40                        | 1.87    | -2.04                      | 1.19                  | 3.6                        | 8                              | 16     | 7                             | 8         | nw.                         |
| The Southern Interior.               |                 |                  |                          |                               |                            |                 |       |         |       |                           |         |                            |                       |                            |                                |        |                               |           |                             |
| Belle Plain.....                     | Cape May.....   | 30               | 30                       | 40.5                          | -0.6                       | 74              | 30    | 19      | 20    | 43                        | 4.50    | +0.80                      | .....                 | 0.4                        | 10                             | 11     | 10                            | 10        | Thomas J. Durell.           |
| Bridgeton.....                       | Cumberland..... | 30               | 43                       | 41.4                          | -0.9                       | 74              | 28    | 24      | 17    | 40                        | 3.25    | -0.93                      | 1.32                  | T                          | 9                              | 22     | 2                             | 7         | Henry A. Jorden.            |
| Burlington.....                      | Burlington..... | 12               | §38                      | 41.0                          | +0.6                       | 71              | 30    | 20      | 1     | 34                        | 3.08    | -0.63                      | 1.45                  | 3.0                        | 10                             | 21     | 3                             | 7         | D. S. B. McCoy.             |
| Clayton.....                         | Gloucester..... | 130              | 28                       | 41.6 <sup>a</sup>             | -0.1                       | 73              | 30    | 22      | 15    | 38                        | 2.41    | -1.17                      | 1.18                  | .....                      | 8                              |        |                               |           | Stanley McCool.             |
| Hammonton.....                       | Atlantic.....   | 103              | 25                       |                               |                            |                 |       |         |       |                           | 4.32    | +0.73                      | 2.08                  | 2.0                        | 6                              | 19     | 3                             | 9         | Charles M. Phillips.        |
| Hightstown.....                      | Mercer.....     | 120              | 32                       | 38.2                          | -2.2                       | 69              | 30    | 16      | 1     | 38                        | 2.49    | -1.55                      | 1.13                  | 1.0                        | 9                              | 23     | 2                             | 6         | E. H. Savige, Jr.           |
| Imlaystown.....                      | Monmouth.....   | 115              | 36                       | 39.0                          | -0.1                       | 69              | 30    | 14      | 1     | 40                        | 2.80    | -1.28                      | 0.90                  | .....                      | 12                             | 19     | 5                             | 7         | Wm. R. Hendrickson.         |
| Indian Mills†.....                   | Burlington..... | 76               | 35                       | 39.8                          | -0.7                       | 74              | 30    | 19      | 1     | 42                        | 4.51    | +0.48                      | 1.68                  | 7.5                        | 9                              | 12     | 10                            | 9         | James M. Armstrong.         |
| Lakewood.....                        | Ocean.....      | 54               | 20                       | 37.8                          | -1.8                       | 66              | 30    | 20      | 1†    | 34                        | 3.51    | -0.47                      | 1.30                  | 3.0                        | 11                             | 16     | 5                             | 10        | R. W. Holman.               |
| Moorestown.....                      | Burlington..... | 75               | 61                       | 38.8 <sup>a</sup>             | -0.4                       | 65              | 28    | 23      | 1†    | 32                        | 3.25    | -0.51                      | 1.30                  | .....                      | 10                             | 13     | 11                            | 7         | John B. Warrick.            |
| Northfield†.....                     | Atlantic.....   | 25               | 17                       |                               |                            |                 |       |         |       |                           | 3.90    | +0.41                      | 1.32                  | 1.0                        | 12                             |        |                               |           | William L. Flick.           |
| Pleasantville†.....                  | Atlantic.....   | 26               | 26                       | 39.2                          |                            | 76              | 30    | 20      | 14†   | 45                        | 3.99    | +0.52                      | 1.09                  | .....                      | 10                             |        |                               |           | N. J. Dept. Conservation.   |
| Runyon.....                          | Middlesex.....  | 18               |                          |                               |                            | 70              | 28†   |         |       |                           | 2.30    |                            | 0.70                  |                            | 8                              |        |                               |           | N. J. Dept. Conservation.   |
| Trenton.....                         | Mercer.....     | 190              | 52                       | 39.3                          | +0.2                       | 69              | 30    | 22      | 15    | 31                        | 2.12    | -1.92                      | 1.03                  | 8.2                        | 9                              | 15     | 7                             | 9         | U. S. Weather Bureau.       |
| Tuckerton.....                       | Ocean.....      | 23               | 31                       | 40.9                          | +0.9                       | 74              | 30    | 19      | 15    | 41                        | 5.69    | +1.44                      | 3.80                  | 4.5                        | 7                              | 19     | 7                             | 5         | Frank R. Austin.            |
| Vineland.....                        | Cumberland..... | 109              | 55                       | 41.2 <sup>a</sup>             | +0.7                       | 74 <sup>a</sup> | 30    | 22      | 15    | 34 <sup>a</sup>           | 4.41    | +0.45                      | 2.38                  |                            | 5                              |        |                               |           | H. C. Himes.                |
| Philadelphia, Pa.....                |                 | 117              | 54                       | 41.6                          | +0.8                       | 72              | 30    | 25      | 15    | 32                        | 3.45    | 0.00                       | 1.62                  | 2.5                        | 8                              | 9      | 14                            | 8         | U. S. Weather Bureau.       |
| Means and extremes...                |                 |                  |                          | 39.9                          | -0.4                       | 76              | 30    | 14      | 1     | 45                        | 3.53    | +0.24                      | 3.80                  | 2.6                        | 9                              | 17     | 6                             | 8         | nw.                         |
| The Sea Coast.                       |                 |                  |                          |                               |                            |                 |       |         |       |                           |         |                            |                       |                            |                                |        |                               |           |                             |
| Asbury Park.....                     | Monmouth.....   | 22               | 35                       | 38.8                          | -0.2                       | 68              | 28    | 22      | 14†   | 33                        | 2.22    | -2.01                      |                       | T.                         | 7                              | 11     | 7                             | 13        | Information Bureau.         |
| Atlantic City.....                   | Atlantic.....   | 16               | 50                       | 40.2                          | +1.6                       | 73              | 30    | 24      | 15    | 33                        | 3.59    | -0.14                      | 1.15                  | T.                         | 8                              | 17     | 5                             | 9         | U. S. Weather Bureau.       |
| Cape May City.....                   | Cape May.....   | 17               | 40                       | 41.1                          | +0.3                       | 68              | 30    | 26      | 14    | 28                        | 4.90    | +1.17                      | 1.42                  | T.                         | 10                             | 14     | 9                             | 8         | U. S. Weather Bureau.       |
| Long Branch.....                     | Monmouth.....   | 25               | 17                       | 38.3                          | -0.2                       | 68              | 28†   | 23      | 14    | 32                        | 2.75    | -1.59                      | 1.27                  | 1.1                        | 10                             | 12     | 9                             | 10        | William D. Martin, Jr.      |
| Sandy Hook.....                      | Monmouth.....   | 22               | 26                       | 38.5                          | +1.5                       | 64              | 30    | 25      | 15    | 26                        | 1.81    | -2.43                      | 0.85                  | 0.1                        | 9                              | 13     | 9                             | 9         | U. S. Weather Bureau.       |
| Means and extremes...                |                 |                  |                          | 39.4                          | +0.6                       | 73              | 30    | 22      | 14†   | 33                        | 3.05    | -1.00                      | 1.42                  | 0.2                        | 9                              | 13     | 8                             | 10        | nw.                         |
| For the State.....                   |                 |                  |                          | 38.8                          | 0.0                        | 76              | 30    | 5       | 2     | 45                        | 2.51    | -1.32                      | 3.80                  | 2.7                        | 8                              | 16     | 6                             | 9         | nw.                         |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for March, 1924.

| Stations.                                  | Drainage Basin. | Day of month. |   |     |   |     |     |     |     |    |     |      |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      |     |     |     |      |      | Total. |
|--------------------------------------------|-----------------|---------------|---|-----|---|-----|-----|-----|-----|----|-----|------|------|------|----|----|-----|----|----|----|----|-----|-----|-----|-----|----|------|-----|-----|-----|------|------|--------|
|                                            |                 | 1             | 2 | 3   | 4 | 5   | 6   | 7   | 8   | 9  | 10  | 11   | 12   | 13   | 14 | 15 | 16  | 17 | 18 | 19 | 20 | 21  | 22  | 23  | 24  | 25 | 26   | 27  | 28  | 29  | 30   | 31   |        |
| <i>The Highlands and Kittatinny Valley</i> |                 |               |   |     |   |     |     |     |     |    |     |      |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      |     |     |     |      |      |        |
| Belvidere.....                             | Delaware.....   |               |   | T.  |   | .02 | .05 |     | T.  | T. |     |      | .89  | .07  |    |    |     |    |    |    |    |     |     |     |     |    |      | .53 |     | .02 | .05  | .20  | 1.83   |
| Charlotteburg.....                         | Passaic.....    |               |   |     |   |     |     |     | T.  |    |     |      | .31  | .29  |    |    |     |    |    |    |    |     |     |     |     |    |      | .45 |     | .35 |      |      | 1.09   |
| Culvers Lake.....                          | Delaware.....   |               |   | T.  |   | T.  |     | .01 | T.  |    | T.  |      | .31  | .10  |    |    | T.  | T. |    |    |    |     |     |     |     |    |      | .35 | .02 |     | .10  | .25  | 1.14   |
| Dover.....                                 | Passaic.....    |               |   | .01 |   | .14 |     |     | T.  |    |     |      | *    | .60  |    |    | T.  |    |    |    |    |     |     |     |     |    |      | .47 |     | T.  | .15  |      | 1.39   |
| Layton.....                                | Delaware.....   |               |   |     |   |     |     |     |     |    |     |      | .53  | .11  |    |    |     |    |    |    |    |     |     |     |     |    |      | *   | .43 |     | .22  | .29  | 1.58   |
| Newton.....                                | Delaware.....   |               |   | T.  |   | .05 | .02 | .04 | T.  |    |     |      | .26  | .02  |    |    |     |    |    |    |    |     |     |     |     |    |      | T.  |     | T.  | .50  |      | 0.99   |
| Phillipsburg.....                          | do.....         |               |   | T.  |   | .03 |     | T.  | T.  |    | T.  |      | .44  | T.   |    |    | T.  |    |    |    |    |     |     |     |     |    |      | .51 |     | .09 | T.   | T.   | 1.07   |
| Sussex.....                                | Hudson.....     |               |   |     |   | .03 |     |     |     |    |     |      | .42  | .11  |    |    |     |    |    |    |    |     |     |     |     |    |      | .25 |     | .12 | .20  |      | 1.13   |
| <i>The Red Sandstone Plain.</i>            |                 |               |   |     |   |     |     |     |     |    |     |      |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      |     |     |     |      |      |        |
| Bergen Point.....                          | Coast.....      |               |   | T.  |   |     | .01 |     | T.  |    |     |      | .49  | .24  |    |    |     |    |    |    |    | T.  |     |     |     |    |      | .55 | T.  |     | .19  | .09  | 1.57   |
| Boonton   .....                            | Passaic.....    |               |   |     |   | T.  | .06 |     |     |    |     |      | .10  | .35  |    |    |     |    |    |    |    |     |     |     |     |    |      | .06 | .30 |     | .05  |      | 0.92   |
| Chatham  .....                             | do.....         |               |   |     |   | .14 |     | T.  |     | T. |     |      | .31  | 1.19 |    |    |     |    |    |    |    |     |     |     |     |    |      | .09 | .72 |     | .29  |      | 2.74   |
| Elizabeth.....                             | Coast.....      |               |   | T.  |   | T.  | .12 | .02 | T.  |    |     |      | *    | 1.06 |    |    | T.  |    |    |    |    |     |     |     |     |    |      | *   | .70 | .01 | *    | .19  | 2.10   |
| Flemington.....                            | Raritan.....    |               |   | T.  |   | T.  | .24 | .03 |     |    |     | .01  | .63  | .07  |    |    | T.  |    |    |    |    | T.  |     |     |     |    |      | .35 |     | T.  | .21  | .11  | 1.65   |
| Highwood.....                              | Hackensack..... |               |   | T.  |   | T.  | .06 |     | T.  |    |     |      | .57  | .23  |    |    | T.  | T. |    |    |    |     |     |     |     |    |      | .47 | .05 |     | .03  | .12  | 1.53   |
| Jersey City.....                           | Coast.....      |               |   | T.  |   | .11 | .01 |     | T.  |    | T.  | 1.08 | .40  |      |    | T. |     |    |    |    |    | T.  |     |     |     |    |      | .72 | .01 | .01 | .06  | .11  | 2.51   |
| Lambertville.....                          | Delaware.....   |               |   | T.  |   | .12 |     |     | T.  |    | T.  | .90  | .19  |      |    | T. |     |    |    |    |    | .09 | .03 |     |     |    |      | .61 | .04 | .08 | .09  | .66  | 2.86   |
| Little Falls.     .....                    | Passaic.....    |               |   |     |   | .08 |     | .08 |     |    |     |      | .22  | .42  |    |    |     |    |    |    |    |     |     |     |     |    |      | .10 | .47 |     |      | .12  | 1.41   |
| Newark**.....                              | Coast.....      |               |   | T.  |   | .08 |     | .10 | .02 |    |     |      | .58  | .32  |    |    | T.  | T. |    |    |    | T.  |     |     |     |    |      | .60 |     |     | .45  |      | 2.07   |
| New Brunswick.....                         | Raritan.....    |               |   | T.  |   | .02 | .12 |     | T.  |    |     |      | .99  | .24  |    |    | T.  |    |    |    |    |     |     |     |     |    |      | .49 | .02 | .03 | .04  | .34  | 2.29   |
| New Milford.....                           | Hackensack..... |               |   |     |   | .05 | .02 |     |     |    |     |      | .86  | .08  |    |    |     |    |    |    |    |     |     |     |     |    |      | .30 | .13 |     | .05  | .13  | 1.62   |
| Paterson.....                              | Passaic.....    |               |   | T.  |   | T.  | .06 | .02 | T.  |    |     |      | .64  | .12  |    |    | T.  | T. |    |    |    |     |     |     |     |    |      | .47 | .02 |     | .04  | .11  | 1.48   |
| Plainfield.....                            | Raritan.....    |               |   | T.  |   | .23 |     | .01 | .10 |    |     |      | 1.03 | .26  |    |    | T.  | T. |    |    |    |     |     |     |     |    |      | .57 | .05 | .02 | .04  | .22  | 2.53   |
| Somerville.....                            | Raritan.....    |               |   |     |   | .13 |     |     | T.  |    |     | T.   | .75  |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .75 |     |     | .06  | .12  | 1.81   |
| South Orange.....                          | Rahway.....     |               |   |     |   |     |     |     |     |    |     |      |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .53 |     |     | .10  | .02  | \$     |
| Woodcliffe Lake.**.....                    | Hackensack..... |               |   |     |   | .03 |     |     |     |    |     |      | .37  |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .20 |     |     | .05  | .15  | 0.80   |
| New York, N. Y***.....                     | Coast.....      |               |   | T.  |   | .06 | .01 | T.  | T.  |    | T.  |      | .80  | .18  |    |    | T.  |    |    |    |    | T.  |     |     |     |    |      | .45 |     | .01 | .05  | .09  | 1.65   |
| <i>The Southern Interior.</i>              |                 |               |   |     |   |     |     |     |     |    |     |      |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      |     |     |     |      |      |        |
| Belle Plain.....                           | Tuckahoe.....   |               |   |     |   | .27 |     |     | .18 |    | *   | *    | 1.71 |      |    |    |     |    |    |    |    | .05 |     | .63 | .25 |    |      | .60 |     |     | .76  |      | 4.50   |
| Bridgeton.....                             | Coast.....      |               |   |     |   | .20 | *   |     |     |    | .08 | 1.20 | .12  |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .60 | .10 |     | .25  |      | 3.25   |
| Burlington.....                            | Delaware.....   |               |   | *   |   | .04 |     |     |     |    |     | 1.45 | .65  |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .50 | .08 |     | .28  | T.   | 3.08   |
| Clayton.....                               | Delaware.....   |               |   |     |   | .05 | .03 |     |     |    | *   | 1.18 | .06  |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .60 |     |     | .40  |      | 2.41   |
| Hammonton.....                             | Mullica.....    |               |   |     |   | .10 |     |     | .16 |    | T.  | 2.08 | T.   |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .85 |     | .50 | T.   |      | 4.32   |
| Hightstown.....                            | Raritan.....    |               |   |     |   | T.  | .14 | .01 |     |    | T.  | 1.13 | .32  |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .53 | .09 | .06 | .11  | .10  | 2.49   |
| Imlaytown.....                             | Delaware.....   |               |   |     |   | .02 | .12 | .03 |     |    |     |      | .90  | .58  |    |    |     |    |    |    |    |     |     |     |     |    |      | .65 | .08 | .04 | .08  | .14  | 2.80   |
| Indian Mills.....                          | Mullica.....    |               |   |     |   | .10 |     | .05 |     |    | T.  | 1.68 | .45  |      |    |    |     |    |    |    |    |     |     | .30 | .20 |    | 1.28 | .05 |     | .40 |      | 4.51 |        |
| Lakewood.....                              | Metedeconk..... |               |   |     |   | .02 | .10 | .06 | .04 |    | T.  | 1.30 | .55  |      |    |    | T.  | T. |    |    |    |     |     | .22 | .05 |    |      | .90 | .08 |     | .19  |      | 3.51   |
| Moorestown.....                            | Delaware.....   |               |   |     |   | T.  | .10 | .01 |     |    | T.  | 1.30 | .45  |      |    |    | T.  |    |    |    |    |     |     | .39 | .09 |    |      | .60 | .01 |     | .28  | .02  | 3.25   |
| Northfield.....                            | Coast.....      |               |   |     |   | .21 | .02 | .07 | .03 |    | .04 | 1.32 | .31  |      |    |    |     |    |    |    |    |     |     | .51 | .20 |    |      | .59 | .02 |     | .58  |      | 3.90   |
| Pleasantville.....                         | Coast.....      |               |   |     |   | .24 | .07 | .05 |     |    |     | .76  | 1.09 |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .25 | .32 |     | .42  | .08  | 3.99   |
| Runyon.....                                | Coast.....      |               |   |     |   | .18 | .02 |     |     |    |     | .70  | .47  |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .56 | .14 |     | .13  | .10  | 2.80   |
| Trenton***.....                            | Delaware.....   |               |   |     |   | .15 |     | .02 | T.  |    | T.  | 1.03 | .20  |      |    | T. |     |    |    |    |    |     |     | .02 |     |    |      | .57 |     | .01 | .03  | .09  | 2.12   |
| Tuckerton.....                             | Coast.....      |               |   |     |   | .10 | .06 |     |     |    |     | 2.10 | 1.70 |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .86 |     |     | .50  |      | 5.69   |
| Vineland.....                              | Maurice.....    |               |   |     |   | .17 |     |     |     |    |     | 2.38 |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .60 |     |     | .69  |      | 4.41   |
| Philadelphia, Pa.....                      | Delaware.....   |               |   |     |   | .11 | T.  | .02 |     |    |     | .02  | 1.62 | T.   |    |    | T.  |    |    |    |    |     |     |     |     |    |      | .67 |     | T.  | .29  | .01  | 3.45   |
| <i>The Sea Coast.</i>                      |                 |               |   |     |   |     |     |     |     |    |     |      |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      |     |     |     |      |      |        |
| Asbury Park.....                           | Coast.....      |               |   |     |   | .10 | .04 |     |     |    | *   | 1.10 |      |      |    |    |     |    |    |    |    |     |     |     |     |    |      | .80 | .04 |     | .14  |      | 2.22   |
| Atlantic City.....                         | do.....         |               |   |     |   | .27 | T.  | .12 |     |    |     | .14  | 1.10 | .36  |    |    | T.  |    |    |    |    | T.  |     |     |     |    |      | .49 |     |     | .54  |      | 3.69   |
| Cape May City.....                         | do.....         |               |   |     |   | .08 |     | .08 | T.  |    |     | .21  | .98  | .40  |    |    |     |    |    |    |    |     |     |     |     |    |      | .36 |     |     | 1.35 | .02  | 4.90   |
| Long Branch.....                           | do.....         |               |   |     |   | .10 | .01 |     | T.  |    |     | T.   | 1.27 | .24  |    |    | .01 | T. |    |    |    |     |     |     |     |    |      | .89 |     | .03 | .12  | .07  | 2.75   |
| Sandy Hook***.....                         | do.....         |               |   | T.  |   | .11 | .02 | .01 | T.  |    |     | T.   | .74  | .20  |    |    | T.  |    |    |    |    |     |     |     |     |    |      | .52 |     | .03 | .08  | .10  | 1.81   |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation.  
 \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement.  
 \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA.

| Stations.             | Pressure.     |          |       |         |       | Wind.            |                 |            |       | Moisture.                                  |                                            | Sun-<br>shine                      |
|-----------------------|---------------|----------|-------|---------|-------|------------------|-----------------|------------|-------|--------------------------------------------|--------------------------------------------|------------------------------------|
|                       | Monthly mean. | Highest. | Date. | Lowest. | Date. | Hourly velocity. | Highest.        |            |       | Relative humidity,<br>per cent. at 8 a. m. | Relative humidity,<br>per cent. at 8 p. m. | Percentage of<br>possible sunshine |
|                       |               |          |       |         |       |                  | Miles per hour. | Direction. | Date. |                                            |                                            |                                    |
| Atlantic City.....    | 29.79         | 30.20    | 4     | 28.94   | 11    | 21               | 88              | ne.        | 11    | 77                                         | 70                                         | 62                                 |
| Cape May City.....    | 29.83         | 30.22    | 4     | 29.14   | 11    | 11               | 55              | ne.        | 11    | 77                                         | 77                                         | .....                              |
| Long Branch.....      |               | 30.20    | 4     | 29.08   | 11    | .....            | 63              | ne.        | 11    | 77                                         | 66                                         | .....                              |
| Newark.....           |               |          |       |         |       |                  |                 |            |       | 76*                                        | 78†                                        | .....                              |
| New York, N. Y.....   | 29.78         | 30.23    | 4     | 29.09   | 11    | 22               | 74              | nw.        | 8     | 69                                         | 67                                         | 59                                 |
| Philadelphia, Pa..... | 29.80         | 30.23    | 31    | 29.09   | 11    | 12               | 40              | e.         | 11    | 65                                         | 55                                         | 63                                 |
| Sandy Hook.....       | 29.77         | 30.22    | 4     | 29.00   | 11    | 20               | 70              | ne.        | 11    | 71                                         | 65                                         | 62                                 |
| Trenton.....          | 29.78         | 30.23    | 31    | 29.06   | 11    | 15               | 56              | nw.        | 8     | 70                                         | 60                                         | 68                                 |

\* 7 a. m. † 9 p. m.



## Daily Temperatures for March, 1924.

| Stations.                            | 1          | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25 | 26 | 27 | 28  | 29  | 30  | 31    | Mean. |       |      |
|--------------------------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-------|-------|-------|------|
| The Highlands and Kittatinny Valley. |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |       |       |       |      |
| Belvidere.....                       | Maximum... | 41  | 41  | 37  | 49  | 44  | 47  | 45  | 39  | 48  | 40  | 37  | 44  | 40  | 41  | 32  | 31  | 46  | 51  | 42  | 51  | 41  | 54  | 63  | 60 | 54 | 45 | 46  | 65  | 57  | 65    | 48    | 46.6  |      |
|                                      | Minimum... | 13  | 17  | 25  | 24  | 35  | 32  | 32  | 23  | 29  | 27  | 31  | 32  | 29  | 21  | 20  | 24  | 28  | 26  | 26  | ... | 32  | 34  | 24  | 25 | 28 | 30 | 28  | 35  | 35  | 32    | 27.5* |       |      |
| Charlotteburg.....                   | Maximum... | 34  | 40  | 41  | 46  | 47  | 47  | 45  | 37  | 42  | 38  | 38  | 39  | 36  | 34  | 33  | 30  | 40  | 45  | 39  | 46  | 44  | 45  | 54  | 55 | 51 | 50 | 44  | 62  | 60  | 64    | 50    | 44.4  |      |
|                                      | Minimum... | 19  | 14  | 24  | 19  | 33  | 28  | 29  | 21  | 27  | 32  | 31  | 31  | 27  | 18  | 17  | 22  | 24  | 25  | 27  | 24  | 29  | 30  | 29  | 17 | 23 | 29 | 26  | 29  | 34  | 34    | 29    | 25.8  |      |
| Dover.....                           | Maximum... | 40  | 39  | 41  | 49  | 47  | 49  | 42  | 36  | 48  | 40  | 36  | 41  | 39  | 38  | 36  | 33  | 44  | 49  | 42  | 49  | 40  | 51  | 60  | 59 | 52 | 41 | 48  | 64  | 64  | 64    | 44    | 45.7  |      |
|                                      | Minimum... | 21  | 19  | 26  | 24  | 36  | 32  | 30  | 23  | 24  | 30  | ... | 32  | 24  | 20  | 19  | 24  | 28  | 26  | 27  | 26  | 34  | 30  | 23  | 26 | 29 | 29 | 28  | 32  | 34  | 34    | 29    | 27.3* |      |
| Layton.....                          | Maximum... | 39  | 40  | 39  | 45  | 44  | 48  | 45  | 43  | 43  | 41  | 39  | 41  | 39  | 35  | 30  | 30  | 42  | 46  | 40  | 47  | 39  | 50  | 59  | 57 | 52 | 39 | 46  | 61  | 53  | 68    | 51    | 44.9  |      |
|                                      | Minimum... | 10  | 5   | 24  | 21  | 34  | 33  | 30  | 19  | 29  | 28  | 32  | 32  | 28  | 18  | 20  | 22  | 27  | 25  | 26  | 26  | 30  | 34  | 22  | 21 | 24 | 30 | 24  | 34  | 34  | 29    | 25.6  |       |      |
| Newton.....                          | Maximum... | 40  | 40  | 40  | 47  | 44  | 44  | 43  | 41  | 43  | 38  | 40  | 42  | 39  | 36  | 40  | 40  | 42  | 46  | 41  | 46  | 42  | 49  | 56  | 56 | 52 | 48 | 50  | 62  | 55  | 64    | 52    | 45.7  |      |
|                                      | Minimum... | 18  | 15  | 25  | 26  | 35  | 32  | 31  | 19  | 28  | 29  | 30  | 29  | 22  | 19  | 22  | 20  | 26  | 25  | 25  | 32  | 32  | 26  | 31  | 26 | 28 | 26 | 31  | 33  | 33  | 27    | 26.7  |       |      |
| Phillipsburg.....                    | Maximum... | 37  | 40  | 39  | 50  | 44  | 48  | 46  | 37  | 47  | 41  | 38  | 44  | 41  | 39  | 31  | 36  | 48  | 51  | 44  | 50  | 41  | 53  | 58  | 59 | 54 | 42 | 46  | 67  | 49  | 66    | 47    | 46.2  |      |
|                                      | Minimum... | 20  | 22  | 29  | 29  | 36  | 35  | 32  | 27  | 31  | 33  | 34  | 35  | 29  | 24  | 23  | 27  | 31  | 30  | 31  | 35  | 37  | 27  | 29  | 33 | 30 | 31 | 33  | 37  | 35  | 32    | 30.5  |       |      |
| Sussex.....                          | Maximum... | 42  | 42  | 41  | 53  | 44  | 48  | 45  | 42  | 44  | 39  | 37  | 42  | 38  | 37  | 31  | 31  | 44  | 48  | 41  | 49  | 48  | 54  | 57  | 57 | 55 | 45 | 50  | 64  | 58  | 65    | 51    | 46.5  |      |
|                                      | Minimum... | 15  | 10  | 22  | 19  | 34  | 31  | 32  | 20  | 29  | 28  | 32  | 33  | 28  | 19  | 20  | 24  | ... | 24  | 26  | 25  | 34  | 29  | 21  | 21 | 27 | 30 | 27  | 35  | 34  | 31    | 26.2* |       |      |
| The Red Sandstone Plain.             |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |       |       |       |      |
| Bergen Point.....                    | Maximum... | 42  | ... | 43  | 50  | 47  | 48  | 42  | 41  | 50  | 43  | 40  | 42  | 42  | 41  | 36  | 37  | 46  | 47  | 46  | 49  | 46  | 50  | 50  | 61 | 54 | 47 | 49  | 66  | 55  | 66    | 47    | 47.4* |      |
|                                      | Minimum... | 25  | 25  | 30  | 31  | 40  | 36  | 37  | 25  | 31  | 37  | 33  | 32  | 32  | 25  | 24  | 28  | 31  | 31  | 31  | 29  | 31  | 31  | 37  | 33 | 34 | 32 | 31  | 36  | 37  | 37    | 31    | 31.5  |      |
| Boonton§§.....                       | Maximum... | 40  | 41  | 41  | 48  | 44  | 49  | 36  | 36  | 45  | 41  | 35  | 43  | 38  | ... | 32  | 35  | 44  | ... | ... | ... | 39  | 31  | 37  | 33 | 34 | 32 | 31  | 36  | 37  | 37    | 31    | 31.5  |      |
|                                      | Minimum... | 17  | 18  | 22  | 23  | 28  | 22  | 29  | 23  | 25  | 29  | 31  | 31  | 30  | ... | 32  | 35  | 44  | ... | ... | ... | 39  | 31  | 37  | 33 | 34 | 32 | 31  | 36  | 37  | 37    | 31    | 31.5  |      |
| Elizabeth.....                       | Maximum... | 40  | 39  | 44  | 49  | 46  | 50  | 44  | 42  | 49  | 43  | 41  | 44  | 43  | 41  | 37  | 33  | 48  | 53  | 47  | 53  | 48  | 53  | 61  | 60 | 53 | 45 | 49  | 68  | 65  | 68    | 57    | 48.8  |      |
|                                      | Minimum... | 20  | 25  | 28  | 29  | 38  | 35  | 37  | 26  | 30  | 36  | 33  | 33  | 31  | 23  | 23  | 27  | 31  | 28  | 30  | 26  | 36  | 36  | 27  | 30 | 33 | 31 | 33  | 38  | 37  | 35    | 30.8  |       |      |
| Flemington.....                      | Maximum... | 44  | 45  | 42  | 56  | 46  | 52  | 47  | 40  | 50  | 45  | 39  | 44  | 43  | 43  | 35  | 38  | 50  | 54  | 48  | 52  | 47  | 52  | 62  | 63 | 57 | 49 | 70  | 59  | 69  | 53    | 49.7  |       |      |
|                                      | Minimum... | 14  | 22  | 26  | 26  | 34  | 34  | 30  | 26  | 30  | 30  | 33  | 34  | 31  | 23  | 22  | 25  | 30  | 27  | 30  | 27  | 33  | 34  | 25  | 29 | 30 | 32 | 30  | 36  | 36  | 34    | 29.1  |       |      |
| Highwood.....                        | Maximum... | 37  | 36  | 41  | 47  | 45  | 47  | 38  | 36  | 49  | 37  | 38  | ... | 41  | 38  | 33  | 35  | ... | 50  | 44  | ... | 41  | ... | 55  | 60 | 50 | 40 | 48  | ... | 48  | 43.3* |       |       |      |
|                                      | Minimum... | 20  | 20  | 24  | 26  | 37  | 33  | 32  | 24  | 31  | 29  | 33  | 33  | 30  | 21  | 22  | 26  | 29  | 27  | 25  | 26  | 33  | 35  | 25  | 25 | 31 | 30 | 31  | 36  | 33  | 33    | 28.6  |       |      |
| Jersey City.....                     | Maximum... | 40  | 40  | 44  | 50  | 50  | 50  | 43  | 39  | 48  | 44  | 40  | 41  | 41  | 40  | 33  | 35  | 46  | 51  | 44  | 50  | 41  | 52  | 59  | 58 | 56 | 42 | 50  | 67  | 55  | 68    | 49    | 47.3  |      |
|                                      | Minimum... | 25  | 24  | 30  | 35  | 41  | 36  | 32  | 27  | 32  | 35  | 32  | 33  | 32  | 24  | 24  | 26  | 30  | 30  | 30  | 29  | 36  | 36  | 33  | 38 | 34 | 32 | 31  | 36  | 37  | 34    | 32.0  |       |      |
| Lambertville.....                    | Maximum... | 36  | 37  | 40  | 48  | 47  | 45  | 45  | 38  | 46  | 40  | 38  | 39  | 39  | 37  | 33  | 36  | 46  | 49  | 42  | 47  | 39  | 49  | 56  | 58 | 50 | 40 | 43  | 66  | 57  | 66    | 49    | 45.2  |      |
|                                      | Minimum... | 18  | 22  | 27  | 29  | 36  | 33  | 33  | 24  | 29  | 32  | 32  | 33  | 33  | 29  | 21  | 20  | 25  | 29  | 29  | 30  | 27  | 33  | 34  | 27 | 34 | 31 | 32  | 28  | 32  | 37    | 29.7  |       |      |
| Little Falls§§.....                  | Maximum... | 41  | 40  | 43  | 49  | 45  | 50  | 38  | 38  | 39  | 39  | 46  | 44  | 44  | 41  | 40  | 32  | 35  | 46  | 50  | 43  | 52  | 42  | 52  | 59 | 60 | 58 | 38  | 50  | 66  | 46    | 72    | 45    | 46.6 |
|                                      | Minimum... | 20  | 20  | 24  | 25  | 35  | 33  | 34  | 25  | 29  | 28  | 32  | 33  | 32  | 23  | 22  | 26  | 29  | 25  | 29  | 28  | 33  | 34  | 24  | 26 | 27 | 35 | 29  | 31  | 39  | 35    | 34    | 29.0  |      |
| Newark.....                          | Maximum... | 41  | 42  | 46  | 52  | 50  | 50  | 44  | 38  | 50  | 42  | 38  | 40  | 42  | 40  | 31  | 32  | 47  | 52  | 42  | 51  | 42  | 50  | 58  | 61 | 57 | 41 | 45  | 70  | 55  | 68    | 45    | 47.2  |      |
|                                      | Minimum... | 28  | 26  | 35  | 35  | 43  | 38  | 36  | 32  | 33  | 35  | 33  | 32  | 34  | 25  | 22  | 27  | 28  | 30  | 31  | 30  | 36  | 35  | 34  | 34 | 34 | 32 | 31  | 39  | 36  | 37    | 34    | 32.7  |      |
| New Brunswick.....                   | Maximum... | 37  | 37  | 41  | 50  | 48  | 48  | 46  | 43  | 47  | 44  | 38  | 41  | 40  | 38  | 35  | 38  | 47  | 50  | 48  | 49  | 46  | 49  | 59  | 60 | 53 | 49 | 46  | 68  | 65  | 70    | 57    | 48.1  |      |
|                                      | Minimum... | 18  | 24  | 27  | 30  | 36  | 35  | 34  | 23  | 30  | 31  | 31  | 32  | 32  | 22  | 22  | 25  | 30  | 28  | 30  | 25  | 33  | 36  | 26  | 28 | 29 | 32 | 30  | 32  | 37  | 36    | 35    | 29.6  |      |
| Paterson.....                        | Maximum... | 42  | 41  | 47  | 52  | 45  | 51  | 45  | 37  | 52  | 47  | 40  | 45  | 45  | 43  | 36  | 36  | 47  | 53  | 48  | 53  | 45  | 55  | ... | 65 | 56 | 44 | 52  | 69  | 60  | 69    | 62    | 49.4* |      |
|                                      | Minimum... | 25  | 23  | 27  | ... | 39  | 35  | 35  | 27  | 27  | ... | 33  | 34  | 33  | 24  | 23  | 27  | 31  | 30  | 31  | 31  | 36  | 35  | 37  | 32 | 32 | 31 | 35  | ... | 36  | 36    | 30.9* |       |      |
| Plainfield.....                      | Maximum... | 40  | 40  | 44  | 51  | 47  | 50  | 43  | 39  | 47  | 44  | 37  | 41  | 43  | 41  | 34  | 36  | 47  | 52  | 45  | 52  | 41  | 54  | 61  | 61 | 55 | 42 | 54  | 67  | 56  | 69    | 50    | 47.8  |      |
|                                      | Minimum... | 17  | 22  | 25  | 25  | 34  | 34  | 29  | 25  | 27  | 33  | 32  | 33  | 32  | 22  | 21  | 26  | 31  | 27  | 30  | 26  | 32  | 35  | 22  | 26 | 25 | 32 | 30  | 37  | 37  | 35    | 28.8  |       |      |
| Somerville.....                      | Maximum... | 40  | 40  | 42  | 52  | 45  | 51  | 50  | 42  | 49  | 43  | 40  | 45  | 41  | 42  | 36  | 38  | 48  | 53  | 46  | 52  | 48  | 54  | 62  | 62 | 55 | 48 | 49  | 68  | 64  | 70    | 53    | 49.3  |      |
|                                      | Minimum... | 16  | 25  | 26  | 26  | 34  | 34  | 32  | 25  | 30  | 31  | 33  | 34  | 32  | 23  | 23  | 26  | 31  | 28  | 31  | 27  | 32  | 34  | 24  | 26 | 25 | 32 | 31  | 28  | 37  | 36    | 36    | 29.3  |      |
| South Orange.....                    | Maximum... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 55  | 58 | 56 | 45 | 49  | 66  | ... | 45    | ...   | ...   |      |
|                                      | Minimum... | 31  | 31  | 33  | 32  | 32  | 31  | 34  | ... | 31  | 31  | 33  | 32  | 32  | 31  | 33  | 32  | 33  | 34  | ... | 31  | 31  | 33  | 32  | 32 | 31 | 34 | ... | 34  | 28  | ...   | ...   | ...   |      |
| New York, N. Y.....                  | Maximum... | 39  | 37  | 43  | 47  | 51  | 50  | 42  | 37  | 48  | 44  | 39  | 40  | 40  | 39  | 32  | 33  | 44  | 50  | 42  | 48  | 41  | 50  | 55  | 56 | 54 | 41 | 47  | 65  | 53  | 65    | 43    | 45.6  |      |
|                                      | Minimum... | 26  | 24  | 31  | 36  | 42  | 36  | 32  | 26  | 32  | 35  | 32  | 32  | 25  | 24  | 23  | 26  | 29  | 30  | 30  | 29  | 37  | 37  | 34  | 39 | 35 | 31 | 31  |     |     |       |       |       |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

Vol. XXIX. APRIL, 1924. No. 4.

GENERAL SUMMARY.

April opened with a snowstorm which covered the entire state with from two to ten inches of snow, averaging some six and a half inches. Heavy rains on the 6th-7th, and 18th, were features which largely contributed to the record breaking precipitation for April of this year. In 1901 the April record slightly exceeded that of this year, but by a negligible quantity.

The snow of the 1st did a considerable amount of damage to trees, shrubs, and electric wires, and handicapped highway traffic for a few hours. The rain of the 6th-7th caused a rise in the Delaware River to the highest stages reached since March 1914, but there was no great amount of flood damage. Floods occurred in the upper reaches of the Passaic river system, with moderate resulting damage. Frequency of occurrence of rain was not significantly above normal.

Low average temperature with the excessive precipitation resulted in a decided setback to growth of vegetation, checked germination, and substantially interfered with all forms of outdoor work, so that the advance of spring was approximately two week late.

The weather was mostly fairly warm and pleasant on the 4th, 5th, from the 11th to the 15th, and on the 27th and 28th, on other dates it was either rainy or subnormally cool. The highest average temperatures occurred over the lower Passaic and the southwestern counties; the areas of heaviest precipitation were, in a general way, about midway in the State from Passaic county to the northwestern portion of Cape May County.

Storm warnings were displayed along the coast on the 1st, 6th, 7th, 20th to 22d, and 30th.

TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations was 48.0°, which was 1.5° below the normal. The highest temperature was 81° at Pleasantville on the 14th and Burlington on the 28th, and the lowest, 18° at Culvers Lake on the 1st. The highest monthly mean temperature was 50.8° at Vineland, and the lowest, 44.3° at Layton. The greatest daily range of temperature was 45° at Tuckerton on the 27th and Sussex on the 28th. The temperature departure from the normal for the year 1924 to date, by sections, is; The Highlands, -0.2°; Red Sandstone Plain, -0.2°; Southern Interior, -0.3°; Sea Coast, +0.3°.

PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 46 stations was 6.15 inches, which was 2.50 inches above the normal. The average total snowfall at 20 selected stations was 6.6 inches, which was 5.1 inches above the normal; this average depth ranged from 9.8 inches in the Highlands to 1.6 inches on the Sea Coast. The greatest monthly precipitation was 9.23 inches at Chatham, and the least 4.74 inches at Paterson. The greatest amount of precipitation in any 24 consecutive hours was 4.05 inches at Charlotteburg and Chatham on the 6-7th. The mean number of days on which 0.01 inch or more of precipitation occurred was 11, or 1 more than the normal.

The precipitation accumulated departure from the normal for the year 1924 to date, by sections, is: The Highlands, +0.20

inch; Red Sandstone Plain, +1.94 inches; Southern Interior, +0.74 inch; Sea Coast, +1.96 inches.

WIND.

The prevailing wind direction was from the northwest, with an average velocity of 15 miles per hour, which was 2 miles above the normal. The highest velocity sustained for 5 consecutive minutes, was 70 miles per hour from the northeast at Atlantic City on the 1st. High winds were noted also on the 2d, 7th, 8th, 14th, 19th, 20th, 22d, and 23d.

SUNSHINE AND CLOUDINESS.

The mean of the number of clear days throughout the State was 15, which was 4 more than the normal; partly cloudy, 6, which was 4 less than the normal; cloudy, 9, or normal. The per cent of possible sunshine was 64, which was 7 per cent above the normal.

MISCELLANEOUS.

The mean daily stage of the Delaware River at Phillipsburg was 7.2 feet, and the highest stage, 20.0 feet on the 8th. At Trenton the mean stage was 4.5 feet, which was 0.3 foot above the normal; the highest stage was 11.7 feet on the 8th.

Sleet occurred at a few scattered stations on the 1st, 7th, and 17th. Solar halos were observed on the 7th, 9th, 10th, 11th, 12th, 13th, 15th, 21st, 22d, 27th, and 28th; lunar halos on the 11th and 12th. Thunderstorms occurred in some portions of the State on the 1st, 6th, 18th, 20th, 22d, 29th, and 30th.

Unimportant occurrences of hail were noted at Lamertville, Rahway and Trenton on the 20th.

COMPARATIVE DATA FOR APRIL

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                       |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|-----------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec |
| 1885..... | 48.4        | 88      | 26     | 2.79          | 2.86     | 0.89  | .....      | .....         | .....  | .....                 |
| 1886..... | 50.6        | 86      | 27     | 3.40          | 5.48     | 1.86  | .....      | .....         | .....  | .....                 |
| 1887..... | 47.3        | 87      | 16     | 2.70          | 3.77     | 0.91  | .....      | .....         | 12     | 7                     |
| 1888..... | 47.9        | 92      | 22     | 3.28          | 4.68     | 1.89  | .....      | .....         | 6      | 9                     |
| 1889..... | 51.2        | 83      | 25     | 5.32          | 7.25     | 2.92  | .....      | .....         | 14     | 12                    |
| 1890..... | 50.4        | 86      | 21     | 2.65          | 4.58     | 1.89  | .....      | .....         | 7      | 8                     |
| 1891..... | 52.0        | 88      | 20     | 2.19          | 3.80     | 1.39  | 13         | 11            | 6      | 8                     |
| 1892..... | 49.3        | 87      | 19     | 2.49          | 4.41     | 1.05  | 9          | 13            | 8      | 8                     |
| 1893..... | 49.2        | 82      | 19     | 5.21          | 7.12     | 2.97  | 9          | 10            | 12     | 11                    |
| 1894..... | 50.3        | 88      | 10     | 3.09          | 4.86     | 1.71  | 12         | 9             | 9      | 9                     |
| 1895..... | 49.1        | 89      | 19     | 4.88          | 7.75     | 3.47  | 11         | 7             | 12     | 10                    |
| 1896..... | 52.4        | 93      | 12     | 1.35          | 2.30     | 0.64  | 13         | 10            | 7      | 7                     |
| 1897..... | 50.4        | 89      | 19     | 3.79          | 6.98     | 2.17  | 14         | 11            | 5      | 9                     |
| 1898..... | 47.8        | 81      | 13     | 3.74          | 4.94     | 2.17  | 8          | 11            | 11     | 11                    |
| 1899..... | 49.9        | 88      | 18     | 1.73          | 3.25     | 0.48  | 16         | 10            | 4      | 4                     |
| 1900..... | 50.8        | 82      | 18     | 2.29          | 3.03     | 1.59  | 14         | 9             | 7      | 6                     |
| 1901..... | 48.3        | 89      | 23     | 6.31          | 10.22    | 3.46  | 8          | 7             | 15     | 12                    |
| 1902..... | 50.2        | 93      | 20     | 3.62          | 5.99     | 2.45  | 10         | 11            | 9      | 9                     |
| 1903..... | 50.9        | 92      | 18     | 3.97          | 7.03     | 2.40  | 13         | 7             | 10     | 9                     |
| 1904..... | 46.7        | 85      | 16     | 3.42          | 4.71     | 2.00  | 9          | 12            | 9      | 10                    |
| 1905..... | 49.9        | 84      | 18     | 2.88          | 4.03     | 1.53  | 12         | 11            | 7      | 10                    |
| 1906..... | 51.2        | 87      | 17     | 3.64          | 6.42     | 1.17  | 15         | 10            | 5      | 8                     |
| 1907..... | 45.2        | 83      | 19     | 3.78          | 8.67     | 2.06  | 11         | 9             | 10     | 11                    |
| 1908..... | 51.2        | 93      | 13     | 2.72          | 3.86     | 1.42  | 14         | 9             | 7      | 11                    |
| 1909..... | 50.2        | 88      | 17     | 5.97          | 8.90     | 3.84  | 10         | 11            | 9      | 13                    |
| 1910..... | 53.5        | 88      | 20     | 5.34          | 7.56     | 3.43  | 9          | 11            | 10     | 12                    |
| 1911..... | 47.4        | 88      | 14     | 4.11          | 5.58     | 2.87  | 10         | 10            | 10     | 11                    |
| 1912..... | 50.4        | 82      | 18     | 3.56          | 6.02     | 1.81  | 9          | 10            | 11     | 14                    |
| 1913..... | 52.1        | 89      | 19     | 5.78          | 8.53     | 4.14  | 14         | 7             | 9      | 11                    |
| 1914..... | 48.4        | 89      | 16     | 3.67          | 4.78     | 2.35  | 13         | 10            | 7      | 11                    |
| 1915..... | 54.4        | 96      | 20     | 2.71          | 4.13     | 1.28  | 14         | 10            | 6      | 9                     |
| 1916..... | 48.2        | 85      | 21     | 3.32          | 6.14     | 0.90  | 10         | 9             | 11     | 13                    |
| 1917..... | 48.8        | 88      | 21     | 2.39          | 3.54     | 1.19  | 15         | 8             | 7      | 9                     |
| 1918..... | 49.8        | 81      | 22     | 4.05          | 5.79     | 2.88  | 11         | 8             | 11     | 12                    |
| 1919..... | 49.3        | 85      | 15     | 3.06          | 4.79     | 2.20  | 13         | 7             | 10     | 10                    |
| 1920..... | 48.0        | 85      | 13     | 4.50          | 6.06     | 2.90  | 12         | 9             | 9      | 13                    |
| 1921..... | 56.3        | 87      | 20     | 5.57          | 5.20     | 1.86  | 13         | 6             | 11     | 11                    |
| 1922..... | 51.0        | 89      | 18     | 2.55          | 4.12     | 1.57  | 15         | 7             | 8      | 10                    |
| 1923..... | 50.0        | 91      | 3      | 3.55          | 6.59     | 2.27  | 16         | 6             | 8      | 9                     |
| 1924..... | 48.0        | 81      | 18     | 6.15          | 9.23     | 4.74  | 15         | 6             | 9      | 11                    |



## Climatological Data for April, 1924

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |                 |       |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Prevailing direction of wind | Observers                                                                                                                |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|-----------------|-------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest          | Date  | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy | Cloudy |                              |                                                                                                                          |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 33                      | 46.6                         | -3.2                      | 77      | 28    | 20 <sup>a</sup> | 4     | 42                   | 5.78                     | +2.12                     | 1.60                 | 11.5                      | 10                           | 19    | 3          | 8      | .....                        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 32                      | 44.7 <sup>a</sup>            | -2.1                      | 74      | 28    | 19              | 1     | 41                   | 6.90                     | +2.58                     | 4.05                 | 8.0                       | 8                            | 10    | 5          | 15     | w.                           |                                                                                                                          |
| Culvers Lake.....                           | Sussex.....     | 848             | 23                      | .....                        | .....                     | .....   | ..... | 18              | 1     | .....                | 5.55                     | +1.73                     | 1.20                 | 13.0                      | 11                           | 17    | 5          | 8      | .....                        |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 40                      | 46.2                         | -1.2                      | 75      | 28    | 22              | 1     | 36                   | 7.29                     | +3.53                     | 3.35                 | 9.3                       | 9                            | 8     | 14         | 8      | nw.                          |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 23                      | 44.3                         | -2.9                      | 76      | 28    | 19              | 4     | 42                   | 5.68                     | +2.07                     | 1.96                 | 9.5                       | 12                           | 18    | 1          | 11     | nw.                          | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 41                      | 46.2 <sup>b</sup>            | -1.8                      | 75      | 28    | 20              | 1†    | 33                   | 4.84                     | +1.47                     | 1.60                 | 10.0                      | 11                           | ..... | .....      | .....  | sw.                          |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 41                      | 47.5                         | -2.4                      | 77      | 28    | 25              | 2†    | 42                   | 6.31                     | +3.05                     | 2.31                 | 11.0                      | 11                           | 19    | 4          | 7      | .....                        |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 30                      | 45.9                         | -2.7                      | 80      | 28    | 21              | 1     | 45                   | 5.34                     | +1.90                     | 1.12                 | 6.0                       | 11                           | 13    | 7          | 10     | nw.                          |                                                                                                                          |
| Means and extremes.....                     | .....           | .....           | .....                   | 45.9                         | -2.3                      | 80      | 28    | 18              | 1     | 45                   | 5.96                     | +2.31                     | 4.05                 | 9.8                       | 10                           | 15    | 6          | 9      | nw.                          |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Bergen Point.....                           | Hudson.....     | 37              | 27                      | 49.2                         | -0.3                      | 73      | 27    | 27              | 2     | 30                   | 5.08                     | +0.69                     | 1.26                 | 7.0                       | 12                           | 6     | 15         | 9      | nw.                          | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400             | 34                      | 46.0                         | -2.7                      | 75      | 28    | 20              | 1     | 34                   | 5.87                     | +1.88                     | 2.84                 | .....                     | 8                            | 20    | 2          | 8      | nw.                          |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 20                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 9.23                     | +5.13                     | 4.05                 | .....                     | 7                            | 21    | 5          | 4      | .....                        |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 45                      | 49.4                         | -1.4                      | 75      | 14†   | 26              | 1†    | 37                   | 7.05                     | +3.37                     | 2.55                 | 7.0                       | 12                           | 14    | 9          | 7      | nw.                          |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 38                      | 48.8                         | -1.6                      | 77      | 27†   | 23              | 2†    | 38                   | 6.05                     | +2.53                     | 1.08                 | 8.5                       | 13                           | 17    | 4          | 9      | nw.                          | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood.....                               | Bergen.....     | 90              | 36                      | 45.4 <sup>a</sup>            | -3.1                      | 74      | 27†   | 24              | 1     | 41                   | 6.38                     | +2.95                     | 2.21                 | 10.5                      | 10                           | 9     | 8          | 13     | nw.                          |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 26                      | 48.8                         | -1.2                      | 74      | 14†   | 26              | 2     | 30                   | 5.97                     | +1.81                     | 1.90                 | 8.0                       | 11                           | 15    | 6          | 9      | nw.                          |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 37                      | 47.6                         | -3.1                      | 76      | 28    | 23              | 2     | 31                   | 7.95                     | +4.37                     | 2.42                 | 12.0                      | 16                           | 17    | 2          | 11     | nw.                          |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 32†                     | 49.0                         | -0.9                      | 79      | 28    | 25              | 1     | 37                   | 6.93                     | +2.71                     | 3.49                 | 7.0                       | 8                            | 17    | 3          | 10     | nw.                          | Passaic Consolid. Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                |
| Newark.....                                 | Essex.....      | 159             | 82                      | 50.0                         | 0.0                       | 74      | 14†   | 26              | 2     | 30                   | 7.51                     | +3.77                     | 2.50                 | 12.0                      | 10                           | 13    | 6          | 11     | sw.                          |                                                                                                                          |
| New Brunswick.....                          | Middlesex.....  | 110             | 71                      | 48.8                         | -0.8                      | 74      | 14†   | 23              | 3     | 33                   | 5.92                     | +2.18                     | 2.66                 | 6.2                       | 11                           | 16    | 7          | 7      | w.                           |                                                                                                                          |
| New Milford.....                            | Bergen.....     | 9               | 4                       | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 5.76                     | .....                     | 2.07                 | .....                     | 9                            | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 53                      | 49.9                         | -0.6                      | 76      | 28    | 26              | 1     | 35                   | 4.74                     | +1.18                     | 1.80                 | 4.5                       | 10                           | 12    | 2          | 16     | nw.                          | Marion T. Probert.<br>E. D. Pearson.<br>H. B. TenEyck.<br>F. H. Meeder.                                                  |
| Plainfield.....                             | Union.....      | 120             | 36                      | 47.8                         | -1.8                      | 75      | 14†   | 25              | 1†    | 38                   | 7.10                     | +3.20                     | 3.02                 | 10.5                      | 10                           | 14    | 8          | 8      | nw.                          |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70              | 41                      | 48.2                         | -1.3                      | 76      | 28    | 25              | 1†    | 38                   | 6.17                     | +2.68                     | 1.58                 | .....                     | 10                           | 19    | 0          | 11     | w.                           |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 54                      | 48.4                         | -0.1                      | 72      | 14    | 25              | 1     | 29                   | 6.80                     | +3.23                     | 2.52                 | 10.0                      | 12                           | 10    | 9          | 11     | w.                           |                                                                                                                          |
| Woodcliff Lake.....                         | Bergen.....     | 100             | 4                       | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 5.98                     | .....                     | 2.17                 | 10.0                      | 8                            | ..... | .....      | .....  | .....                        | Hackensack Water Co.<br>U. S. Weather Bureau.                                                                            |
| New York, N. Y.....                         | .....           | 365             | 54                      | 48.1                         | -1.3                      | 71      | 27    | 26              | 2     | 26                   | 4.53                     | +1.23                     | 1.64                 | 8.0                       | 9                            | 8     | 10         | 12     | nw.                          |                                                                                                                          |
| Means and extremes.....                     | .....           | .....           | .....                   | 48.4                         | -1.4                      | 79      | 28    | 20              | 1     | 41                   | 6.50                     | +2.78                     | 4.05                 | 8.7                       | 10                           | 15    | 6          | 9      | nw.                          |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30              | 30                      | 48.0                         | -2.6                      | 77      | 14    | 25              | 5     | 39                   | 6.83                     | +3.18                     | 2.24                 | 0.4                       | 14                           | 13    | 7          | 10     | nw.                          | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Stanley McCool.                                              |
| Bridgeton.....                              | Cumberland..... | 30              | 43                      | 50.5                         | -2.2                      | 80      | 14    | 25              | 2†    | 37                   | 5.98                     | +2.46                     | 2.45                 | 4.0                       | 9                            | 18    | 4          | 8      | n.                           |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 38                      | 50.0                         | -1.8                      | 81      | 28    | 21              | 3     | 42                   | 6.18                     | +2.48                     | 1.50                 | 6.0                       | 10                           | 18    | 5          | 7      | nw.                          |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 28                      | 50.0 <sup>b</sup>            | -1.2                      | 78      | 14†   | 23              | 2     | 37                   | 5.02                     | +1.54                     | 1.43                 | 4.0                       | 11                           | ..... | .....      | .....  | nw.                          |                                                                                                                          |
| Hammonton.....                              | Atlantic.....   | 103             | 25                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 6.90                     | +2.98                     | 2.35                 | 5.0                       | 7                            | 20    | 3          | 7      | w.                           | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 47.6                         | -2.9                      | 79      | 28    | 20              | 2     | 42                   | 6.66                     | +2.75                     | 1.85                 | 6.0                       | 14                           | 20    | 4          | 6      | nw.                          |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 48.2                         | -2.3                      | 78      | 28    | 19              | 3     | 43                   | 5.09                     | +1.65                     | 1.50                 | 7.0                       | 13                           | 16    | 4          | 10     | w.                           |                                                                                                                          |
| Indian Mills.....                           | Burlington..... | 76              | 35                      | 48.8                         | -1.5                      | 80      | 28    | 24              | 2     | 44                   | 7.87                     | +4.45                     | 3.36                 | 5.0                       | 12                           | 12    | 7          | 11     | w.                           |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54              | 20                      | 46.8                         | -2.6                      | 72      | 27    | 25              | 2     | 38                   | 5.99                     | +2.32                     | 1.50                 | 2.5                       | 13                           | 14    | 4          | 12     | nw.                          | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                             | Burlington..... | 75              | 61                      | 48.0 <sup>d</sup>            | -2.4                      | 72      | 14†   | 24              | 2     | 33                   | 5.64                     | +2.35                     | 1.30                 | 8.0                       | 11                           | 14    | 7          | 9      | nw.                          |                                                                                                                          |
| Northfield.....                             | Atlantic.....   | 25              | 17                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 5.53                     | +2.07                     | 1.29                 | 0.4                       | 13                           | ..... | .....      | .....  | nw.                          |                                                                                                                          |
| Pleasantville.....                          | Atlantic.....   | 26              | 26                      | 47.6                         | .....                     | 81      | 14    | 25              | 4     | 40                   | 5.27                     | +1.92                     | 1.86                 | .....                     | 10                           | 15    | 10         | 5      | nw.                          |                                                                                                                          |
| Runyon.....                                 | Middlesex.....  | 18              | .....                   | .....                        | .....                     | 78      | 28    | .....           | ..... | .....                | 5.71                     | .....                     | 2.04                 | .....                     | 11                           | ..... | .....      | .....  | w.                           | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.           |
| Trenton.....                                | Mercer.....     | 190             | 52                      | 49.4                         | -0.4                      | 76      | 28    | 23              | 2     | 28                   | 5.99                     | +2.70                     | 2.31                 | 7.5                       | 12                           | 10    | 10         | 10     | nw.                          |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 31                      | 47.6 <sup>b</sup>            | -1.7                      | 77      | 14†   | 25              | 2     | 45                   | 5.96                     | +2.22                     | 2.48                 | 2.0                       | 12                           | 18    | 7          | 5      | nw.                          |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 55                      | 50.8                         | -0.2                      | 79      | 28    | 25              | 2     | 36                   | 6.57                     | +3.17                     | 1.90                 | 1.0                       | 12                           | 14    | 10         | 6      | w.                           |                                                                                                                          |
| Philadelphia, Pa.....                       | .....           | 117             | 54                      | 51.2                         | -0.9                      | 76      | 14    | 27              | 2     | 26                   | 5.37                     | +2.46                     | 2.16                 | 6.7                       | 11                           | 12    | 4          | 14     | w.                           |                                                                                                                          |
| Means and extremes.....                     | .....           | .....           | .....                   | 48.7                         | -1.8                      | 81      | 14†   | 19              | 3     | 45                   | 6.06                     | +2.53                     | 3.36                 | 4.2                       | 11                           | 15    | 6          | 9      | nw.                          |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 35                      | 46.0 <sup>a</sup>            | -2.5                      | 74      | 14    | 25              | 2     | 29                   | 5.35                     | +1.66                     | 1.60                 | .....                     | 10                           | 18    | 2          | 10     | w.                           | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 50                      | 48.8                         | +1.0                      | 77      | 14    | 29              | 2     | 30                   | 5.39                     | +2.40                     | 1.75                 | 0.3                       | 12                           | 12    | 9          | 9      | w.                           |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 40                      | 49.8                         | +1.4                      | 78      | 14    | 32              | 1     | 30                   | 5.60                     | +2.61                     | 1.98                 | .....                     | 13                           | 12    | 7          | 11     | nw.                          |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 17                      | 46.6                         | -1.5                      | 74      | 14    | 26              | 2     | 29                   | 6.38                     | +1.83                     | 2.32                 | 3.6                       | 14                           | 13    | 10         | 7      | nw.                          |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 26                      | 47.6                         | +0.6                      | 69      | 27    | 27              | 2     | 24                   | 4.98                     | +1.02                     | 1.62                 | 2.4                       | 11                           | 9     | 11         | 10     | w.                           |                                                                                                                          |
| Means and extremes.....                     | .....           | .....           | .....                   | 47.8                         | -0.2                      | 78      | 14    | 25              | 2     | 30                   | 5.54                     | +1.90                     | 2.32                 | 1.6                       | 12                           | 13    | 8          | 9      | w.                           |                                                                                                                          |
| For the State.....                          | .....           | .....           | .....                   | 48.0                         | -1.5                      | 81      | 14†   | 18              | 1     | 45                   | 6.15                     | +2.50                     | 4.05                 | 6.6                       | 11                           | 15    | 6          | 9      | nw.                          |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete records are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Indian Mills is Afton; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



## Daily Precipitation for April, 1924

| Stations                                   | Drainage Basin  | Day of month |      |   |   |   |         |      |     |     |     |     |    |    |    |    |     |     |         |      |     |     |     |     |    |    |     |    |    |    |     |     | Total |      |      |      |
|--------------------------------------------|-----------------|--------------|------|---|---|---|---------|------|-----|-----|-----|-----|----|----|----|----|-----|-----|---------|------|-----|-----|-----|-----|----|----|-----|----|----|----|-----|-----|-------|------|------|------|
|                                            |                 | 1            | 2    | 3 | 4 | 5 | 6       | 7    | 8   | 9   | 10  | 11  | 12 | 13 | 14 | 15 | 16  | 17  | 18      | 19   | 20  | 21  | 22  | 23  | 24 | 25 | 26  | 27 | 28 | 29 | 30  | 31  |       |      |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |   |   |   |         |      |     |     |     |     |    |    |    |    |     |     |         |      |     |     |     |     |    |    |     |    |    |    |     |     |       |      |      |      |
| Belvidere.....                             | Delaware.....   | 1.38         |      |   |   |   | 1.60    | .53  |     | .07 |     |     |    |    |    |    |     |     | 1.05    | .25  | .15 | T.  | .22 |     |    |    |     |    |    |    | .37 | .16 |       | 5.78 |      |      |
| Charlotteburg.....                         | Passaic.....    | .67          |      |   |   |   | * 4.05  |      | .06 |     |     |     |    |    |    |    |     |     | 1.65    | .20  | .20 |     | .27 |     |    |    |     |    |    |    | T.  | .22 |       | 6.96 |      |      |
| Culvers Lake.....                          | Delaware.....   | .76          | .26  |   |   |   | 1.15    | 1.20 | .04 | .01 |     |     |    |    |    |    |     | T.  | .99     | .25  | .35 | .32 |     |     |    |    |     |    |    |    |     |     |       | 5.55 |      |      |
| Dover.....                                 | Passaic.....    | .93          |      |   |   |   | * 3.35  |      | .06 |     |     |     |    |    |    |    |     | *   | 1.74    |      | .13 |     | .23 |     |    |    |     |    |    |    |     | .85 |       | 7.29 |      |      |
| Layton.....                                | Delaware.....   | *            | .64  |   |   |   | 1.96    | 1.01 | .08 | .01 |     |     |    |    |    |    |     | .02 | .68     | .37  | .33 |     | .43 |     |    |    |     |    |    |    | T.  | .15 |       | 5.68 |      |      |
| Newton.....                                | Delaware.....   | 1.60         | .40  |   |   |   | .92     |      | .39 |     |     |     |    |    |    |    |     | .03 | .65     | .05  | .36 | .02 | .24 |     |    |    |     |    |    |    | T.  | .18 |       | 4.84 |      |      |
| Phillipsburg.....                          | do.....         | 2.31         | T.   |   |   |   | * 1.76  |      | .08 |     |     |     |    |    | T. |    | T.  | .03 | .93     | .09  | .20 |     | .15 |     |    |    | T.  |    |    |    | .51 | .25 |       | 6.31 |      |      |
| Sussex.....                                | Hudson.....     | .83          | .70  |   |   |   | .81     | 1.12 | .11 |     |     |     |    |    |    |    |     |     | .51     | .38  | .38 | .02 | .30 |     |    |    |     |    |    |    |     | .18 |       | 5.34 |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |   |   |   |         |      |     |     |     |     |    |    |    |    |     |     |         |      |     |     |     |     |    |    |     |    |    |    |     |     |       |      |      |      |
| Bergen Point.....                          | Coast.....      | .80          | .12  |   |   |   | .75     | .94  | .07 | T.  |     |     |    |    | T. |    |     |     | 1.26    | .44  | .28 | .11 | .01 |     |    |    |     |    |    |    |     | .15 | .15   |      | 5.08 |      |
| Boonton   .....                            | Passaic.....    |              | .58  |   |   |   | T. 2.84 |      | .03 |     |     |     |    |    |    |    |     |     | .01     | 2.19 | T.  | .04 | .01 | .17 |    |    |     |    |    |    |     | .19 | .43   |      | 5.87 |      |
| Chatham   .....                            | do.....         |              | 1.37 |   |   |   | * 4.05  |      |     |     |     |     |    |    |    |    |     |     | 2.69    | T.   | .24 |     | .26 |     |    |    |     |    |    |    |     | .68 | .05   |      | 9.23 |      |
| Elizabeth.....                             | Coast.....      | *            | 1.23 |   |   |   | * 2.55  |      | .04 |     |     |     |    |    |    |    |     | *   | * 1.96  | .31  |     | .23 |     |     |    |    |     |    |    |    |     |     |       | 7.05 |      |      |
| Flemington.....                            | Raritan.....    | .40          | .45  |   |   |   | 1.08    | 1.03 | .01 | .04 |     |     |    |    | T. |    | T.  | T.  | .93     | .53  | .76 | .02 | .19 |     |    |    |     |    |    |    |     | .53 | .08   |      | 6.05 |      |
| Highwood.....                              | Hackensack..... | *            | 1.34 |   |   |   | 1.15    | 1.06 | .04 | T.  |     |     |    |    |    |    |     |     | 1.66    | .53  | .11 | T.  | .24 |     |    |    |     |    |    |    |     | T.  | .25   |      | 6.38 |      |
| Jersey City.....                           | Coast.....      | *            | 1.00 |   |   |   | * 1.90  |      | .05 |     |     |     |    |    | T. |    |     | T.  | 1.75    | .45  | .22 |     | .20 |     |    |    |     |    |    |    |     | .05 | .35   |      | 5.97 |      |
| Lambertville.....                          | Delaware.....   | 1.42         | .13  |   |   |   | 1.65    | .77  | .04 | .05 |     |     |    |    |    |    | .06 | .06 | 1.41    | .41  | .54 | .06 | .22 |     |    |    | .06 |    |    |    |     | .67 | .40   |      | 7.95 |      |
| Little Falls.   .....                      | Passaic.....    |              | .80  |   |   |   | .04     | 3.45 | .05 |     |     |     |    |    |    |    |     |     | .06     | 2.24 | .09 | .09 | .20 |     |    |    |     |    |    |    |     |     |       | 6.93 |      |      |
| Newark**.....                              | Coast.....      | 1.20         |      |   |   |   | .25     | 2.25 | .22 |     |     |     |    |    |    |    |     |     | 2.14    | .03  | .45 | .23 |     |     |    |    |     |    |    |    |     | .45 | .29   |      | 7.51 |      |
| New Brunswick.....                         | Raritan.....    | .38          | .18  |   |   |   | .72     | 1.94 | .01 | .01 |     |     |    |    |    |    |     | T.  | 1.48    | .36  | .17 |     | .29 |     |    |    |     |    |    |    |     | .31 | .08   |      | 5.92 |      |
| New Milford.....                           | Hackensack..... |              | .46  |   |   |   | 1.75    | .71  | .05 |     |     |     |    |    |    |    |     |     | 2.07    | .07  | .09 |     | .20 |     |    |    |     |    |    |    |     | .36 |       | 5.76 |      |      |
| Paterson.....                              | Passaic.....    | .70          | .44  |   |   |   | .02     | .82  | .03 |     |     |     |    |    |    |    |     |     | 1.80    | .46  | .12 |     | .25 |     |    |    |     |    |    |    |     | T.  | .10   |      | 4.74 |      |
| Plainfield.....                            | Raritan.....    | .85          | .23  |   |   |   | 1.87    | 1.15 | .03 |     |     |     |    |    |    |    |     |     | 1.73    | .42  | .33 |     | .37 | .12 |    |    |     |    |    |    |     | .37 | .12   |      | 7.10 |      |
| Somerville.....                            | Raritan.....    | .85          |      |   |   |   | 1.08    | 1.58 | T.  | .07 |     |     |    |    |    |    |     | T.  | 1.38    | .53  | .21 |     | .18 |     |    |    |     |    |    |    |     | .21 | .08   |      | 6.17 |      |
| South Orange.....                          | Rahway.....     | .66          | T.   |   |   |   | * 2.52  |      | .08 | .01 |     |     |    |    |    |    |     | T.  | 2.38    | *    | .27 | .31 |     |     |    |    |     |    |    |    |     | .21 | .36   |      | 6.80 |      |
| Woodcliffe Lake.**.....                    | Hackensack..... | 1.00         |      |   |   |   | 2.08    | .45  | .05 |     |     |     |    |    |    |    |     |     | 2.17    | .08  | .05 |     | .10 |     |    |    |     |    |    |    |     | .07 | .20   |      | 5.98 |      |
| New York, N. Y.**.....                     | Coast.....      | .86          | T.   |   |   |   | 1.00    | .39  | .04 |     |     |     |    |    | T. |    |     | T.  | 1.64    | T.   | .12 |     | .21 |     |    |    |     |    |    |    |     |     |       | 4.53 |      |      |
| <i>The Southern Interior.</i>              |                 |              |      |   |   |   |         |      |     |     |     |     |    |    |    |    |     |     |         |      |     |     |     |     |    |    |     |    |    |    |     |     |       |      |      |      |
| Belle Plain.....                           | Tuckahoe.....   | *            | .80  |   |   |   | 1.05    | 1.19 | .09 | *   | *   | .25 |    |    |    |    |     |     | *       | 2.54 | .08 |     | .12 |     |    |    |     |    |    |    | .27 |     |       | .44  |      | 6.83 |
| Bridgeton.....                             | Coast.....      | .90          |      |   |   |   | .68     | .90  | .14 | T.  |     |     |    |    |    |    |     |     | 2.45    | .10  |     | .15 |     |     |    |    |     |    |    |    |     | .28 | .38   |      | 5.98 |      |
| Burlington.....                            | Delaware.....   | *            | 1.09 |   |   |   | .83     | 1.14 | T.  | .02 |     |     |    |    |    |    |     | T.  | 1.50    | .59  | .15 | T.  | .32 |     |    |    |     |    |    |    |     | .54 |       |      | 6.18 |      |
| Clayton.....                               | Delaware.....   | .92          |      |   |   |   | .30     | 1.13 | .04 |     |     |     |    |    |    |    |     |     | 1.37    | .55  | .20 | .15 |     |     |    |    |     |    |    |    |     | .10 | .25   |      | 5.02 |      |
| Hammonton.....                             | Mullica.....    | 1.02         | .06  |   |   |   | 2.05    |      | T.  |     |     |     |    |    |    |    |     |     | 2.35    | .53  | .03 | .19 |     |     |    |    |     |    |    |    |     | T.  | .70   |      | 6.90 |      |
| Hightstown.....                            | Raritan.....    | .47          | .34  |   |   |   | .86     | 1.85 | .03 |     |     |     |    |    | T. |    |     | .07 | .03     | 1.33 | .46 | .12 | .31 |     |    |    |     |    |    |    |     | .36 | .11   |      | 6.66 |      |
| Imlaystown.....                            | Delaware.....   | .15          | .70  |   |   |   | .73     | 1.50 | .03 | T.  |     |     |    |    |    |    |     | .07 |         | .20  | .55 | .19 | .48 |     |    |    |     |    |    |    |     | .32 | .15   |      | 5.09 |      |
| Indian Mills.....                          | Mullica.....    | .71          | .16  |   |   |   | 1.30    | 2.06 | .07 |     |     |     |    |    |    |    |     |     | 2.00    | .60  | .11 |     | .27 |     |    |    |     |    |    |    |     | .13 | .36   |      | 7.87 |      |
| Lakewood.....                              | Metedeconk..... | .55          | .33  |   |   |   | .85     | .80  | .08 | .05 |     |     |    |    | T. |    |     | .05 | T. 1.50 | .60  | .27 | .51 |     |     |    |    |     |    |    |    |     | .18 | .22   |      | 5.99 |      |
| Moorestown.....                            | Delaware.....   | 1.30         |      |   |   |   | .75     | .85  | .02 |     |     |     |    |    |    |    |     | T.  | T. 1.30 | .52  | .07 | .33 |     |     |    |    |     |    |    |    |     | .44 | .02   |      | 5.64 |      |
| Northfield.....                            | Coast.....      | .47          | .07  |   |   |   | .90     | .94  | .12 | .09 | .02 |     |    |    |    |    |     |     | 1.29    | .66  | .10 |     | .18 |     |    |    |     |    |    |    |     | .26 |       |      | 5.53 |      |
| Pleasantville   .....                      | Coast.....      | *            | .52  |   |   |   | .18     | .51  | .12 | .10 |     |     |    |    |    |    |     |     | .18     | 1.78 |     | .16 |     | .38 |    |    |     |    |    |    |     | .17 |       |      | 5.27 |      |
| Runyon.....                                | Coast.....      | *            | .81  |   |   |   | .78     | 1.26 | .02 |     |     |     |    |    |    |    |     |     | 1.25    | .47  | .14 |     | .35 |     |    |    |     |    |    |    |     | .61 | .02   |      | 5.71 |      |
| Trenton**.....                             | Delaware.....   | .89          |      |   |   |   | 2.15    | .16  | .01 |     |     |     |    |    | T. |    |     | .05 | T. 1.94 | .01  | .05 | .20 |     |     |    |    |     |    |    |    |     | .36 | .14   |      | 5.99 |      |
| Tuckerton.....                             | Coast.....      | .55          | .18  |   |   |   | .68     | .95  | .12 | .06 |     |     |    |    |    |    |     |     | 1.20    | 1.28 | .15 | .44 |     |     |    |    |     |    |    |    |     | .25 |       |      | 5.96 |      |
| Vineland.....                              | Maurice.....    | *            | 1.18 |   |   |   | .95     | 1.45 | .10 | .01 |     |     |    |    |    |    |     |     | 1.90    | .40  | .14 |     | .14 |     |    |    |     |    |    |    |     | .22 | .08   |      | 6.57 |      |
| Philadelphia, Pa.....                      | Delaware.....   | 1.06         | T.   |   |   |   | 1.32    | .07  | .03 |     |     |     |    |    |    |    |     |     | .01     | 2.16 |     | .14 |     | .21 |    |    |     |    |    |    |     | .14 | .16   |      | 5.37 |      |
| <i>The Sea Coast.</i>                      |                 |              |      |   |   |   |         |      |     |     |     |     |    |    |    |    |     |     |         |      |     |     |     |     |    |    |     |    |    |    |     |     |       |      |      |      |
| Asbury Park.....                           | Coast.....      | .30          |      |   |   |   | * 1.60  |      | .10 |     |     |     |    |    |    |    |     |     | *       | 1.60 | .60 | .20 |     | .40 |    |    |     |    |    |    |     | .30 | .25   |      | 5.35 |      |
| Atlantic City**.....                       | do.....         | .62          |      |   |   |   | 1.35    | .18  | .14 | .10 |     |     |    |    |    |    |     |     | .01     | 1.69 | .06 | .11 | .06 |     |    |    |     |    |    |    |     | .16 | .91   |      | 5.39 |      |
| Cape May City.....                         | do.....         | .71          | T.   |   |   |   | 1.20    | .78  | .09 | .12 | .22 | .05 |    |    |    |    |     |     | 1.08    | .53  | .03 | .02 |     |     |    |    |     |    |    |    |     | T.  | .70   |      | 5.60 |      |
| Long Branch**.....                         | do.....         | .49          | .03  |   |   |   | 1.38    | .46  | .06 | .01 |     |     |    |    |    |    |     |     | .09     | 2.32 | .02 | .17 | .64 |     |    |    |     |    |    |    |     | .40 | .29   |      | 6.38 |      |
| Sandy Hook**.....                          | do.....         | .51          |      |   |   |   | 1.13    | .28  | .04 | .01 |     |     |    |    |    |    |     |     | T. 1.61 | .01  | .18 |     | .31 |     |    |    |     |    |    |    |     | .66 | .24   |      | 4.98 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture |                                         | Sun-<br>shine                          |                                    |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------|-----------------------------------------|----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |          | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date     |                                         |                                        |                                    |
| Atlantic City.....    | 29.99        | 30.41   | 4    | 29.36  | 30   | 20              | 70             | ne.       | 1        | 70                                      | 69                                     | 62                                 |
| Cape May City.....    | 30.03        | 30.44   | 4    | 29.46  | 30   | 10              | 38             | ne.       | 1        | 74                                      | 76                                     | .....                              |
| Long Branch.....      | 29.98        | 30.35   | 4    | 29.38  | 30   | .....           | 50             | ne.       | 1        | 69                                      | 63                                     | .....                              |
| Newark.....           | 29.96        | 30.39   | 4    | 29.40  | 30   | 21              | 66             | nw.       | 7        | 67                                      | 63                                     | 62                                 |
| New York, N. Y.....   | 29.99        | 30.41   | 4    | 29.37  | 30   | 10              | 34             | n.        | 22       | 58                                      | 54                                     | 60                                 |
| Philadelphia, Pa..... | 29.96        | 30.38   | 4    | 29.35  | 30   | 17              | 50             | nw.       | 7        | 69                                      | 68                                     | 63                                 |
| Sandy Hook.....       | 29.96        | 30.38   | 4    | 29.35  | 30   | 17              | 50             | nw.       | 7        | 69                                      | 68                                     | 63                                 |
| Trenton.....          | 29.98        | 30.41   | 5    | 29.38  | 30   | 13              | 50             | nw.       | 22       | 65                                      | 63                                     | 66                                 |



## CLIMATOLOGICAL DATA: NEW JERSEY SECTION

APRIL, 1924

Daily Temperatures for April, 1924

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |      |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |
| Belvidere.....                       | Maximum | 37 | 38 | 49 | 60 | 66 | 61 | 54 | 56 | 50 | 58 | 55 | 63 | 62 | 73 | 65 | 58 | 50 | 50 | 60 | 51 | 50 | 49 | 60 | 65 | 65 | 65 | 73 | 77 | 68 | 55   | 58.2 |      |
|                                      | Minimum | 23 | 24 | 20 | 27 | 44 | 37 | 44 | 37 | 36 | 29 | 36 | 34 | 30 | 38 | 47 | 37 | 40 | 31 | 37 | 36 | 31 | 31 | 40 | 38 | 34 | 47 | 33 | 33 | 35 | 45   | 40   |      |
| Charlotteburg.....                   | Maximum | 35 | 33 | 49 | 60 | 65 | 49 | 49 | 51 | 50 | 56 | 55 | 54 | 68 | 68 | 58 | 57 | 55 | 46 | 56 | 54 | 53 | 56 | 56 | 63 | 60 | 58 | 69 | 74 | 70 | 60   | 56.2 |      |
|                                      | Minimum | 19 | 28 | 24 | 24 | 29 | 38 | 32 | 32 | 25 | 35 | 36 | 22 | 20 | 20 | 38 | 38 | 39 | 39 | 37 | 37 | 37 | 37 | 39 | 34 | 42 | 35 | 28 | 42 | 38 | 33.2 |      |      |
| Dover.....                           | Maximum | 34 | 36 | 50 | 61 | 66 | 42 | 51 | 54 | 49 | 58 | 58 | 60 | 70 | 70 | 60 | 58 | 49 | 51 | 57 | 51 | 54 | 58 | 58 | 65 | 60 | 62 | 72 | 75 | 64 | 54   | 56.9 |      |
|                                      | Minimum | 22 | 24 | 25 | 28 | 32 | 35 | 35 | 30 | 37 | 37 | 37 | 30 | 38 | 49 | 37 | 41 | 31 | 38 | 38 | 31 | 32 | 40 | 39 | 37 | 44 | 36 | 36 | 44 | 44 | 43   | 56.6 |      |
| Layton.....                          | Maximum | 32 | 36 | 56 | 61 | 61 | 49 | 51 | 54 | 50 | 51 | 51 | 61 | 70 | 68 | 57 | 59 | 47 | 47 | 60 | 58 | 57 | 58 | 58 | 63 | 60 | 63 | 72 | 76 | 62 | 54   | 56.6 |      |
|                                      | Minimum | 20 | 24 | 24 | 19 | 24 | 35 | 35 | 25 | 36 | 29 | 23 | 34 | 45 | 29 | 39 | 29 | 37 | 37 | 27 | 28 | 41 | 32 | 40 | 39 | 37 | 29 | 41 | 29 | 33 | 43   | 39   |      |
| Newton.....                          | Maximum | 34 | 37 | 50 | 66 | 60 | 55 | 55 | 50 | 56 | 56 | 56 | 61 | 69 | 70 | 65 | 56 | 54 | 50 | 58 | 54 | 52 | 52 | 56 | 64 | 56 | 65 | 72 | 75 | 65 | 53   | 52.0 |      |
|                                      | Minimum | 20 | 25 | 22 | 20 | 34 | 40 | 34 | 30 | 36 | 34 | 29 | 39 | 45 | 39 | 38 | 31 | 35 | 34 | 32 | 40 | 36 | 38 | 38 | 32 | 40 | 43 | 43 | 43 | 43 | 43   | 34.6 |      |
| Phillipsburg.....                    | Maximum | 32 | 40 | 49 | 61 | 66 | 48 | 52 | 54 | 56 | 59 | 59 | 63 | 71 | 74 | 68 | 45 | 54 | 61 | 59 | 53 | 59 | 62 | 68 | 63 | 64 | 75 | 77 | 58 | 54 | 54   | 57.0 |      |
|                                      | Minimum | 27 | 25 | 25 | 25 | 30 | 40 | 40 | 36 | 31 | 31 | 37 | 33 | 38 | 52 | 40 | 38 | 34 | 30 | 33 | 35 | 43 | 40 | 38 | 48 | 36 | 38 | 37 | 47 | 46 | 43   | 36.4 |      |
| Sussex.....                          | Maximum | 39 | 37 | 56 | 61 | 68 | 48 | 51 | 55 | 53 | 57 | 59 | 62 | 70 | 70 | 61 | 61 | 56 | 48 | 59 | 54 | 55 | 57 | 59 | 65 | 61 | 65 | 74 | 80 | 68 | 61   | 59.0 |      |
|                                      | Minimum | 21 | 26 | 22 | 22 | 28 | 34 | 35 | 27 | 30 | 34 | 26 | 35 | 46 | 32 | 40 | 29 | 38 | 37 | 28 | 30 | 42 | 41 | 29 | 39 | 32 | 31 | 35 | 44 | 39 | 39   | 32.8 |      |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |
| Bergen Point.....                    | Maximum | 43 | 39 | 56 | 64 | 67 | 57 | 52 | 54 | 48 | 58 | 62 | 54 | 68 | 72 | 60 | 56 | 49 | 49 | 59 | 53 | 54 | 65 | 59 | 66 | 59 | 61 | 73 | 68 | 56 | 53   | 57.8 |      |
|                                      | Minimum | 28 | 27 | 36 | 34 | 37 | 44 | 39 | 39 | 36 | 41 | 45 | 38 | 43 | 50 | 42 | 37 | 38 | 43 | 44 | 40 | 38 | 42 | 41 | 45 | 41 | 43 | 48 | 47 | 47 | 47   | 40.5 |      |
| Boonton§§.....                       | Maximum | 30 | 37 | 41 | 45 | 65 | 57 | 56 | 54 | 52 | 59 | 59 | 59 | 69 | 74 | 58 | 58 | 51 | 52 | 59 | 57 | 56 | 61 | 62 | 65 | 60 | 63 | 72 | 75 | 57 | 53   | 57.2 |      |
|                                      | Minimum | 20 | 25 | 23 | 24 | 31 | 35 | 35 | 36 | 27 | 37 | 41 | 27 | 35 | 46 | 38 | 40 | 29 | 39 | 28 | 35 | 38 | 40 | 31 | 46 | 37 | 38 | 42 | 43 | 42 | 42   | 34.9 |      |
| Elizabeth.....                       | Maximum | 43 | 41 | 52 | 64 | 68 | 63 | 55 | 57 | 53 | 60 | 62 | 58 | 73 | 75 | 66 | 59 | 54 | 51 | 61 | 56 | 57 | 62 | 69 | 62 | 63 | 75 | 71 | 60 | 51 | 51   | 60.2 |      |
|                                      | Minimum | 26 | 26 | 28 | 30 | 33 | 44 | 38 | 37 | 38 | 39 | 43 | 35 | 41 | 49 | 40 | 42 | 36 | 41 | 40 | 36 | 34 | 40 | 38 | 37 | 50 | 41 | 38 | 45 | 47 | 47   | 47   | 34.9 |
| Flemington.....                      | Maximum | 43 | 43 | 50 | 63 | 68 | 64 | 58 | 59 | 53 | 58 | 63 | 64 | 73 | 76 | 69 | 59 | 53 | 52 | 62 | 59 | 53 | 62 | 65 | 60 | 68 | 70 | 63 | 64 | 41 | 38   | 45   | 61.4 |
|                                      | Minimum | 25 | 23 | 23 | 26 | 30 | 40 | 38 | 36 | 30 | 39 | 38 | 33 | 36 | 48 | 39 | 38 | 30 | 38 | 39 | 31 | 33 | 39 | 40 | 36 | 48 | 39 | 39 | 40 | 45 | 42   | 42   | 36.1 |
| Highwood.....                        | Maximum | 35 | 38 | 50 | 61 | 65 | 50 | 54 | 54 | 58 | 61 | 59 | 70 | 72 | 60 | 56 | 54 | 51 | 60 | 53 | 57 | 62 | 60 | 66 | 57 | 61 | 74 | 74 | 54 | 52 | 55   | 56.6 |      |
|                                      | Minimum | 24 | 26 | 26 | 27 | 33 | 38 | 38 | 37 | 27 | 40 | 38 | 30 | 40 | 47 | 38 | 42 | 28 | 42 | 43 | 32 | 35 | 42 | 42 | 33 | 45 | 40 | 33 | 41 | 45 | 47   | 35.2 |      |
| Jersey City.....                     | Maximum | 36 | 38 | 50 | 61 | 65 | 51 | 54 | 51 | 50 | 57 | 59 | 67 | 69 | 74 | 62 | 56 | 52 | 52 | 61 | 52 | 54 | 62 | 61 | 69 | 60 | 62 | 74 | 71 | 55 | 53   | 57.6 |      |
|                                      | Minimum | 28 | 26 | 32 | 37 | 40 | 41 | 37 | 38 | 36 | 39 | 43 | 38 | 44 | 40 | 41 | 42 | 40 | 41 | 43 | 40 | 39 | 40 | 41 | 44 | 45 | 41 | 44 | 46 | 47 | 46   | 40.1 |      |
| Lambertville.....                    | Maximum | 35 | 38 | 46 | 58 | 65 | 50 | 51 | 55 | 53 | 55 | 57 | 64 | 71 | 72 | 59 | 54 | 45 | 41 | 59 | 58 | 53 | 61 | 59 | 66 | 60 | 61 | 72 | 76 | 60 | 58   | 57.3 |      |
|                                      | Minimum | 26 | 23 | 24 | 30 | 36 | 45 | 39 | 36 | 33 | 39 | 39 | 40 | 47 | 42 | 47 | 42 | 37 | 38 | 38 | 38 | 39 | 39 | 38 | 40 | 49 | 39 | 41 | 48 | 46 | 45   | 37.9 |      |
| Little Falls§§.....                  | Maximum | 34 | 39 | 53 | 62 | 68 | 53 | 57 | 59 | 52 | 59 | 59 | 57 | 75 | 76 | 64 | 66 | 53 | 51 | 63 | 59 | 55 | 69 | 64 | 71 | 63 | 63 | 73 | 79 | 57 | 56   | 60.2 |      |
|                                      | Minimum | 25 | 27 | 29 | 27 | 33 | 40 | 38 | 38 | 30 | 39 | 41 | 31 | 40 | 51 | 39 | 42 | 32 | 40 | 41 | 33 | 36 | 41 | 42 | 40 | 48 | 39 | 36 | 46 | 45 | 46   | 37.8 |      |
| Newark.....                          | Maximum | 38 | 36 | 53 | 66 | 70 | 52 | 54 | 59 | 50 | 58 | 61 | 54 | 68 | 74 | 67 | 67 | 51 | 50 | 60 | 52 | 58 | 65 | 65 | 67 | 61 | 63 | 74 | 73 | 56 | 51   | 59.1 |      |
|                                      | Minimum | 27 | 26 | 30 | 39 | 40 | 46 | 39 | 41 | 39 | 39 | 43 | 38 | 44 | 40 | 38 | 43 | 48 | 41 | 44 | 38 | 45 | 43 | 41 | 40 | 41 | 44 | 43 | 46 | 47 | 47   | 40.8 |      |
| New Brunswick.....                   | Maximum | 40 | 38 | 47 | 61 | 66 | 58 | 55 | 54 | 55 | 58 | 62 | 54 | 71 | 74 | 65 | 56 | 54 | 53 | 59 | 57 | 55 | 65 | 61 | 67 | 64 | 61 | 72 | 74 | 66 | 52   | 59.3 |      |
|                                      | Minimum | 26 | 24 | 23 | 29 | 34 | 46 | 39 | 36 | 32 | 39 | 42 | 35 | 40 | 58 | 41 | 40 | 31 | 30 | 40 | 35 | 35 | 40 | 36 | 50 | 39 | 39 | 42 | 46 | 46 | 46   | 38.2 |      |
| Paterson.....                        | Maximum | 39 | 40 | 55 | 65 | 71 | 60 | 53 | 57 | 54 | 62 | 61 | 43 | 52 | 61 | 58 | 60 | 54 | 51 | 61 | 54 | 58 | 64 | 56 | 69 | 64 | 65 | 74 | 76 | 60 | 54   | 60.3 |      |
|                                      | Minimum | 26 | 28 | 30 | 32 | 36 | 41 | 38 | 38 | 34 | 40 | 43 | 32 | 41 | 52 | 40 | 43 | 36 | 4  | 43 | 36 | 38 | 42 | 42 | 37 | 49 | 40 | 41 | 49 | 46 | 48   | 39.5 |      |
| Plainfield.....                      | Maximum | 35 | 41 | 50 | 63 | 67 | 50 | 60 | 50 | 58 | 60 | 59 | 72 | 75 | 63 | 58 | 55 | 53 | 61 | 55 | 53 | 63 | 61 | 68 | 61 | 61 | 74 | 75 | 51 | 58 | 58   | 58.5 |      |
|                                      | Minimum | 25 | 25 | 29 | 28 | 29 | 39 | 38 | 38 | 29 | 39 | 40 | 34 | 39 | 50 | 41 | 42 | 30 | 40 | 41 | 31 | 39 | 39 | 40 | 32 | 47 | 39 | 38 | 47 | 47 | 47   | 37.1 |      |
| Somerville.....                      | Maximum | 42 | 42 | 50 | 62 | 67 | 60 | 54 | 57 | 53 | 59 | 61 | 61 | 72 | 75 | 68 | 57 | 52 | 54 | 61 | 59 | 55 | 64 | 62 | 70 | 63 | 63 | 75 | 77 | 71 | 54   | 60.5 |      |
|                                      | Minimum | 25 | 25 | 25 | 29 | 41 | 39 | 37 | 31 | 40 | 40 | 33 | 36 | 42 | 45 | 41 | 40 | 38 | 4  | 41 | 31 | 34 | 39 | 38 | 31 | 48 | 40 | 38 | 35 | 47 | 42   | 35.9 |      |
| South Orange.....                    | Maximum | 35 | 40 | 49 | 60 | 65 | 50 | 52 | 54 | 50 | 58 | 58 | 56 | 71 | 72 | 59 | 59 | 51 | 52 | 59 | 55 | 56 | 63 | 59 | 66 | 60 | 61 | 67 | 67 | 53 | 51   | 57.2 |      |
|                                      | Minimum | 25 | 26 | 30 | 34 | 37 | 44 | 38 | 38 | 34 | 40 | 43 | 36 | 42 | 45 | 41 | 40 | 38 | 4  | 42 | 38 | 37 | 43 | 41 | 41 | 41 | 41 | 47 | 46 | 46 | 47   | 39.5 |      |
| New York, N. Y.....                  | Maximum | 37 | 38 | 50 | 59 | 62 | 51 | 51 | 52 | 47 | 58 | 58 | 53 | 65 | 70 | 57 | 55 | 50 | 4  | 58 | 4  | 58 | 4  | 53 | 63 | 58 | 64 | 57 | 58 | 71 | 67   | 55   | 52   |
|                                      | Minimum | 28 | 26 | 31 | 39 | 42 | 43 | 36 | 38 | 39 | 41 | 39 | 45 | 16 | 41 | 42 | 41 | 41 | 41 | 41 | 42 | 38 | 41 | 41 | 46 | 45 | 41 | 45 | 47 | 47 | 44   | 40.7 |      |
| The Southern Interior.               |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |
| Belle Plain.....                     | Maximum | 47 | 41 | 53 | 63 | 68 | 58 | 53 | 57 | 50 | 48 | 58 | 63 | 71 | 77 | 70 | 60 | 48 | 55 | 61 | 66 | 68 | 66 | 61 | 68 | 66 | 59 | 71 | 73 | 61 | 50   | 60.2 |      |
|                                      | Minimum | 28 | 29 | 28 | 27 | 25 | 48 | 42 | 36 | 27 | 39 | 41 | 30 | 34 | 46 | 38 | 37 | 33 | 40 | 38 | 30 | 31 | 41 | 41 | 29 | 45 | 37 | 33 | 38 | 41 | 41   | 35.8 |      |
| Bridgeton.....                       | Maximum | 42 | 45 | 52 | 64 | 70 | 57 | 57 | 61 | 55 | 50 | 60 | 65 | 75 | 80 | 62 | 54 | 40 | 51 | 65 | 67 | 67 | 66 | 66 | 72 | 61 | 61 | 75 | 76 | 65 | 64   | 62.4 |      |
|                                      | Minimum | 30 | 25 | 25 | 32 | 34 | 47 | 40 | 35 | 32 | 40 | 42 | 34 | 40 | 46 | 40 | 36 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 35 | 50 | 40 | 40 | 42 | 52 | 43   | 38.6 |      |
| Burlington.....                      | Maximum | 48 | 48 | 50 | 65 | 70 | 67 | 54 | 58 | 57 | 55 | 61 | 61 | 75 | 76 | 74 | 61 | 55 | 55 | 61 | 61 | 58 | 66 | 66 | 69 | 65 | 65 | 75 | 81 | 71 | 56   | 63.0 |      |
|                                      | Minimum | 27 | 21 | 21 | 21 | 31 | 44 | 40 | 36 | 30 | 30 | 30 | 35 | 39 | 46 | 74 | 78 | 58 | 52 | 58 | 62 | 61 | 61 | 62 | 69 | 69 | 49 | 41 | 36 | 39 | 48   | 41   | 37.0 |
| Clayton.....                         | Maximum | 44 | 42 | 52 | 64 | 69 | 64 | 55 | 58 | 57 | 50 | 54 | 64 | 74 | 78 | 76 | 58 | 52 | 58 | 62 | 61 | 61 | 62 | 69 | 69 | 65 | 65 | 75 | 81 | 71 | 56   | 62.1 |      |
|                                      | Minimum | 29 | 23 | 26 | 29 | 32 | 42 | 35 | 31 | 40 | 40 | 40 | 3  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |

<sup>a</sup>, <sup>b</sup>, <sup>c</sup>, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

|                  |                    | Evaporation (inches) |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |       |       |
|------------------|--------------------|----------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-------|-------|
| Pleasantville**. | { Evaporation .... | *                    | *   | .232 | .144 | .128 | .186 | .170 | .208 | *    | .004 | .112 | .160 | .176 | .272 | .176 | .112 | .084 | .020 | .176 | .096 | .128 | .156 | .213 | .234 | .224 | .160 | .224 | .192 | .118 | ... |       |       |
|                  | { Wind movement .. | 178                  | 122 | 52   | 63   | 114  | 197  | 120  | 99   | 86   | 38   | 41   | 79   | 113  | 97   | 83   | 71   | 135  | 197  | 96   | 117  | 151  | 134  | 94   | 76   | 99   | 82   | 68   | 85   | 91   | 134 | ...   | 4,329 |
| Runyon.....      | { Evaporation .... | *                    | *   | .039 | .060 | .032 | .150 | .018 | .120 | .040 | .090 | .120 | .046 | .141 | .210 | .150 | .180 | .060 | *    | .480 | .028 | .214 | .170 | .190 | .180 | .210 | .210 | .210 | .100 | .002 | ... | 3,040 |       |
|                  | { Wind movement .. | 120                  | 105 | 85   | 84   | 69   | 99   | 212  | 185  | 58   | 73   | 60   | 98   | 84   | 180  | 80   | 42   | 68   | 100  | 165  | 57   | 96   | 150  | 154  | 157  | 80   | 95   | 80   | 76   | 62   | 109 | ...   | 3,076 |

Note: Evaporation determined by measuring amount of water evaporated from open pan.

Note: Evaporation determined by measuring amount returned to pan to maintain standard level, less precipitation record.

\* Measurement included in next following



551.05  
UNNT

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXIX.

MAY, 1924.

No. 5.

### GENERAL SUMMARY.

Subnormal warmth and excessive rains, which prevailed in April, continued throughout May, so that weather conditions, cumulatively, assumed an unprecedentedly unfavorable aspect. The low temperature, the amount and frequency of rain and consecutive cloudy days have rarely been equalled singly, and never in combination. It has probably been the worst spring since 1886, which was also cold and damp. There are no tabulated records prior to 1885 of the State as a whole. The greatest departure of temperature below normal occurred in the northern counties and mid-interior. The excess of rainfall was generally Statewide, except along the extreme southeast coast where it was slightly above normal. There was a period from the 2d to the 7th practically without rain, but thereafter it rained almost daily, although there were a few lapses of one or two days at a time without rain. Only about five to seven days were of normal temperature or warmer. Frost occurred early in the month at many central and northern places, and also at the close of the month in the extreme north and in the cranberry marshes.

The unfavorable weather has been exceedingly detrimental to farm work and crop growth, and the season was generally considered to be two to three weeks late. Considerable corn had not been planted at the close of the month, and some farmers stated that they had never planted corn in June, which this year would be commonly done.

Storm warnings were displayed along the coast on the 3d, 7th, 11th, 18th, and 24th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 39 stations, was 56° 8', which was 3.7° below the normal. The highest temperature was 87° at Bridgeton, Burlington, and Indian Mills on the 6th, and the lowest, 25° at Charlotteburg. The greatest daily range of temperature was 46° at Imlaystown on the 6th.

The temperature departure from the normal for the year 1924 to date, by sections, is: The Highlands, -1.1°; Red Sandstone Plain, -0.9°; Southern Interior, -0.9°; Sea Coast, -0.1°.

### PRECIPITATION.

The average total precipitation for the State, as deduced from observations of 43 stations, was 5.69 inches, which was 1.96 inches above the normal. The greatest monthly amount was 7.94 inches at Little Falls, and the least, 3.36 inches at Atlantic City. The greatest amount accumulated in any 24 consecutive hours was 2.59 inches at Newark on the 9th. The average number of days on which 0.01 inch or more of rain fell was 17, which was 6 more than the normal.

The accumulated precipitation departure from the normal for the year 1924 to date, by sections, is: The Highlands, +1.92 inches; Red Sandstone Plain, +4.51 inches; Southern Interior, +6.00 inches; Sea Coast, +1.92 inches.

### WIND.

The prevailing wind direction was from the west, with an average velocity of 14 miles per hour, which was 3 miles above the normal. The highest velocity sustained for 5 consecutive minutes, was 56 miles per hour from the northeast at Long Branch on the 11th, and from the south at Sandy Hook on the 24th. High winds were noted also on the 12th, 18th, and 20th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 12, or normal; partly cloudy, 7, which was 3 less than the normal; cloudy, 12, which was 3 more than the normal. The per cent of possible sunshine was 57, which was 3 per cent below the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.87 inches, which was 0.12 inch below the normal. The highest reading was 30.22 inches at Sandy Hook on the 10th, and the lowest, 29.31 inches at Sandy Hook on the 1st.

The mean stage of the Delaware River at Phillipsburg was 5.4 feet, and the highest, 10.0 feet on the 14th. At Trenton the mean daily stage was 3.5 feet, which was 0.9 foot above the normal; the highest stage was 6.0 feet on the 14th.

Killing frost occurred quite generally over the northern districts, and at scattered points in the central counties on the 2d and 5th. Heavy frost was noted at Flemington and Lakewood on the 2d and 5th, Indian Mills and Whitesbog on the 23d, and at Layton on the 31st; light frost at Lambertville, Burlington, Pleasantville, and Long Branch on the 5th, and at Whitesbog on the 31st. Thunderstorms occurred in some portions of the State on the 1st, 3d, 6th, 7th, 8th, 9th, 11th, 12th, 15th, 16th, 18th, 24th, and 25th. Dense fog occurred on the 7th, 8th, and 28th. Solar halos were observed on the 14th, 15th, 23d, and 29th.

### COMPARATIVE DATA FOR MAY

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                       |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|-----------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec |
| 1885..... | 57.3        | 90      | 29     | 2.74          | 5.20     | 1.18  | .....      | .....         | .....  | .....                 |
| 1886..... | 58.5        | 87      | 36     | 6.07          | 8.46     | 4.15  | .....      | .....         | .....  | .....                 |
| 1887..... | 63.3        | 94      | 35     | 1.37          | 3.82     | 0.08  | .....      | .....         | .....  | .....                 |
| 1888..... | 58.6        | 90      | 26     | 4.32          | 6.48     | 3.00  | .....      | .....         | .....  | .....                 |
| 1889..... | 62.3        | 94      | 32     | 4.09          | 6.60     | 2.43  | .....      | .....         | .....  | .....                 |
| 1890..... | 60.7        | 87      | 33     | 4.24          | 7.17     | 2.60  | .....      | .....         | .....  | .....                 |
| 1891..... | 59.5        | 93      | 28     | 2.97          | 5.39     | 1.78  | .....      | .....         | .....  | .....                 |
| 1892..... | 60.1        | 90      | 30     | 5.04          | 6.52     | 3.26  | .....      | .....         | .....  | .....                 |
| 1893..... | 59.4        | 95      | 29     | 4.07          | 6.38     | 2.55  | .....      | .....         | .....  | .....                 |
| 1894..... | 61.4        | 93      | 30     | 7.72          | 15.61    | 3.57  | .....      | .....         | .....  | .....                 |
| 1895..... | 60.9        | 102     | 28     | 2.85          | 3.95     | 1.66  | .....      | .....         | .....  | .....                 |
| 1896..... | 65.3        | 98      | 29     | 3.21          | 4.54     | 1.62  | .....      | .....         | .....  | .....                 |
| 1897..... | 60.6        | 87      | 29     | 5.68          | 9.11     | 1.71  | .....      | .....         | .....  | .....                 |
| 1898..... | 58.5        | 93      | 29     | 7.00          | 9.26     | 3.92  | .....      | .....         | .....  | .....                 |
| 1899..... | 61.1        | 94      | 29     | 1.92          | 3.15     | 1.15  | .....      | .....         | .....  | .....                 |
| 1900..... | 60.9        | 98      | 26     | 4.71          | 7.33     | 2.53  | .....      | .....         | .....  | .....                 |
| 1901..... | 58.6        | 90      | 29     | 5.60          | 8.13     | 3.10  | .....      | .....         | .....  | .....                 |
| 1902..... | 60.3        | 95      | 29     | 2.04          | 4.63     | 1.11  | .....      | .....         | .....  | .....                 |
| 1903..... | 62.7        | 98      | 27     | 0.69          | 1.32     | 0.08  | .....      | .....         | .....  | .....                 |
| 1904..... | 62.8        | 97      | 31     | 2.60          | 6.69     | 1.01  | .....      | .....         | .....  | .....                 |
| 1905..... | 61.1        | 89      | 22     | 1.71          | 3.94     | 0.42  | .....      | .....         | .....  | .....                 |
| 1906..... | 61.0        | 91      | 24     | 4.21          | 6.28     | 2.37  | .....      | .....         | .....  | .....                 |
| 1907..... | 55.4        | 91      | 22     | 5.05          | 8.09     | 2.51  | .....      | .....         | .....  | .....                 |
| 1908..... | 61.6        | 95      | 29     | 7.10          | 9.99     | 4.39  | .....      | .....         | .....  | .....                 |
| 1909..... | 60.0        | 91      | 27     | 2.30          | 4.84     | 0.79  | .....      | .....         | .....  | .....                 |
| 1910..... | 60.0        | 94      | 27     | 2.54          | 4.25     | 1.48  | .....      | .....         | .....  | .....                 |
| 1911..... | 64.5        | 99      | 22     | 1.37          | 3.84     | 0.31  | .....      | .....         | .....  | .....                 |
| 1912..... | 62.0        | 92      | 31     | 4.09          | 6.47     | 2.79  | .....      | .....         | .....  | .....                 |
| 1913..... | 60.3        | 94      | 25     | 3.45          | 4.86     | 2.53  | .....      | .....         | .....  | .....                 |
| 1914..... | 63.1        | 98      | 30     | 2.93          | 5.09     | 0.95  | .....      | .....         | .....  | .....                 |
| 1915..... | 58.1        | 88      | 30     | 3.82          | 6.15     | 2.00  | .....      | .....         | .....  | .....                 |
| 1916..... | 61.1        | 90      | 33     | 3.48          | 5.27     | 2.14  | .....      | .....         | .....  | .....                 |
| 1917..... | 54.0        | 90      | 25     | 3.83          | 6.83     | 2.08  | .....      | .....         | .....  | .....                 |
| 1918..... | 64.6        | 93      | 31     | 4.94          | 7.59     | 2.74  | .....      | .....         | .....  | .....                 |
| 1919..... | 60.9        | 95      | 31     | 4.98          | 7.68     | 3.06  | .....      | .....         | .....  | .....                 |
| 1920..... | 57.4        | 89      | 26     | 3.00          | 5.23     | 1.61  | .....      | .....         | .....  | .....                 |
| 1921..... | 60.2        | 96      | 32     | 4.17          | 6.44     | 2.60  | .....      | .....         | .....  | .....                 |
| 1922..... | 63.0        | 90      | 23     | 3.84          | 7.55     | 1.16  | .....      | .....         | .....  | .....                 |
| 1923..... | 59.1        | 90      | 25     | 1.66          | 3.62     | 0.67  | .....      | .....         | .....  | .....                 |
| 1924..... | 56.8        | 87      | 25     | 5.69          | 7.94     | 3.36  | .....      | .....         | .....  | .....                 |



## Climatological Data for May, 1924

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Prevailing direction of wind | Observers                                                                                                                |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy | Cloudy |                              |                                                                                                                          |
|                                             |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 33                      | 54.6 <sup>d</sup>            | -6.1                      | 84      | 6    | 31     | 5    | 43                   | 5.15                     | +1.32                     | 1.33                 | 0                         | 17                           | 17    | 3          | 11     | .....                        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 32                      | 53.1                         | -4.4                      | 74      | 6†   | 25     | 5    | 42                   | 6.75                     | +2.55                     | 0.85                 | 0                         | 16                           | 8     | 7          | 16     | w.                           |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848             | 23                      |                              |                           |         |      | 29     | 2    |                      | 5.75                     | +2.12                     | 1.37                 | 0                         | 19                           | 12    | 6          | 13     | w.                           |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 40                      | 54.6                         | -4.0                      | 79      | 6    | 30     | 5    | 39                   | 5.29                     | +1.35                     | 1.65                 | 0                         | 14                           | 5     | 15         | 11     | .....                        |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 23                      | 54.0                         | -4.0                      | 76      | 3†   | 28     | 2†   | 41                   | 6.12                     | +2.87                     | 1.31                 | 0                         | 21                           | 10    | 7          | 14     | w.                           | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 41                      |                              |                           |         |      | 34     | 5    | 42                   | 4.33                     | +0.47                     | 1.24                 | 0                         | 16                           | 13    | 4          | 14     | .....                        |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 41                      | 56.6                         | -4.7                      | 86      | 6    | 34     | 5    | 42                   | 4.54                     | +1.54                     | 1.66                 | 0                         | 19                           |       |            |        | .....                        |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 30                      | 54.4 <sup>b</sup>            | -5.5                      | 78      | 28   | 27     | 5    | 45                   | 5.11                     | +1.39                     | 1.20                 | 0                         | 19                           |       |            |        | nw.                          |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 54.6                         | -4.8                      | 86      | 6    | 25     | 5    | 45                   | 5.50                     | +1.72                     | 1.65                 | 0                         | 17                           | 11    | 7          | 13     | w.                           |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37              | 27                      | 57.4 <sup>a</sup>            | -2.9                      | 80      | 18   | 41     | 2    | 29                   | 6.31                     | +2.35                     | 1.61                 | 0                         | 16                           | 2     | 20         | 9      | sw.                          | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400             | 34                      | 54.4                         | -4.8                      | 75      | 6    | 29     | 5    | 38                   | 6.23                     | +2.17                     | 1.57                 | 0                         | 16                           |       |            |        | nw.                          |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 20                      |                              |                           |         |      |        |      |                      | 4.54                     | +1.54                     | 1.66                 | 0                         | 16                           | 17    | 7          | 7      | .....                        |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 45                      | 57.8                         | -4.2                      | 80      | 18   | 35     | 5    | 35                   | 7.12                     | +3.30                     | 1.65                 | 0                         | 17                           | 10    | 9          | 12     | nw.                          |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 38                      | 56.8                         | -4.5                      | 84      | 6    | 33     | 5    | 38                   | 5.55                     | +1.53                     | 1.17                 | 0                         | 20                           | 18    | 2          | 11     | w.                           | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Win. J. Lauderdale.                                        |
| Highwood††.....                             | Bergen.....     | 90              | 36                      | 56.0                         | -3.3                      | 76      | 17†  | 33     | 5    | 37                   | 5.28                     | +1.45                     | 1.50                 | 0                         | 19                           | 6     | 10         | 15     | nw.                          |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 26                      | 57.3                         | -4.3                      | 76      | 18   | 44     | 10†  | 23                   | 5.79                     | +2.21                     | 1.62                 | 0                         | 19                           | 5     | 14         | 12     | e.                           |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 37                      | 65.8                         | -5.8                      | 82      | 6    | 38     | 5    | 37                   | 6.68                     | +1.66                     | 1.46                 | 0                         | 20                           | 12    | 7          | 12     | w.                           |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 21                      | 57.8                         | -1.9                      | 83      | 18   | 32     | 2    | 43                   | 7.94                     | +4.15                     | 2.22                 | 0                         | 19                           | 14    | 8          | 9      | nw.                          | Passaic Consol. Water Co.<br>Prof. William Wiener.<br>N. J. Experiment Station.<br>Hackensack Water Co.                  |
| Newark.....                                 | Essex.....      | 159             | 82                      | 58.1                         | -3.0                      | 80      | 18   | 43     | 10   | 33                   | 7.08                     | +3.11                     | 2.59                 | 0                         | 15                           | 10    | 6          | 15     | se.                          |                                                                                                                          |
| New Brunswick.....                          | Middlesex.....  | 110             | 71                      | 56.6                         | -3.8                      | 79      | 6    | 36     | 2†   | 36                   | 6.08                     | +2.69                     | 1.45                 | 0                         | 19                           | 15    | 6          | 10     | w.                           |                                                                                                                          |
| New Milford††.....                          | Bergen.....     | 9               | 4                       |                              |                           |         |      |        |      |                      | 4.54                     |                           | 1.18                 | 0                         | 15                           |       |            |        | .....                        |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 53                      | 58.1                         | -3.4                      | 80      | 18   | 38     | 2    | 32                   | 6.67                     | +2.23                     | 2.32                 | 0                         | 20                           | 8     | 3          | 20     | nw.                          | Marion T. Probert.<br>E. D. Pearson.<br>H. B. TenEyck.<br>F. H. Meeder.                                                  |
| Plainfield.....                             | Union.....      | 120             | 36                      | 55.8                         | -4.4                      | 79      | 6    | 31     | 5    | 38                   | 7.33                     | +3.41                     | 1.71                 | 0                         | 20                           | 11    | 11         | 9      | nw.                          |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70              | 41                      | 56.6                         | -4.2                      | 83      | 6    | 30     | 5    | 43                   | 5.91                     | +2.06                     | 1.44                 | 0                         | 18                           |       |            |        | w.                           |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 54                      | 56.1                         | -3.9                      | 77      | 18   | 38     | 2†   | 30                   | 6.77                     | +3.21                     | 1.73                 | 0                         | 19                           | 10    | 8          | 13     | nw.                          |                                                                                                                          |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 4                       |                              |                           |         |      |        |      |                      | 4.17                     |                           | 1.43                 | 0                         | 12                           |       |            |        | .....                        | Hackensack Water Co.<br>U. S. Weather Bureau.                                                                            |
| New York, N. Y.....                         |                 | 365             | 54                      | 56.2                         | -4.4                      | 71      | 24   | 44     | 11   | 20                   | 5.23                     | +2.05                     | 1.36                 | 0                         | 14                           | 6     | 11         | 14     | e.                           |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 56.8                         | -3.9                      | 84      | 6    | 29     | 5    | 43                   | 6.35                     | +2.57                     | 2.59                 | 0                         | 18                           | 11    | 8          | 12     | nw.                          |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30              | 30                      | 57.7 <sup>a</sup>            | -3.4                      | 84      | 6    | 30     | 23   | 40                   | 4.20                     | +0.38                     | 0.61                 | 0                         | 17                           | 11    | 5          | 15     | w.                           | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Stanley McCool.                                              |
| Bridgeton.....                              | Cumberland..... | 30              | 43                      | 59.8                         | -4.2                      | 87      | 6    | 39     | 5    | 38                   | 5.32                     | +1.48                     | 1.25                 | 0                         | 11                           | 17    | 4          | 10     | w.                           |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 38                      | 58.6 <sup>a</sup>            | -3.3                      | 87      | 6    | 37     | 5    | 43                   | 7.16                     | +2.95                     | 1.40                 | 0                         | 16                           | 17    | 4          | 10     | w.                           |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 28                      | 59.4 <sup>b</sup>            | -2.3                      | 83      | 6    | 39     | 2†   | 30                   | 4.74                     | +1.41                     | 0.90                 | 0                         | 14                           |       |            |        | w.                           |                                                                                                                          |
| Hammonton.....                              | Atlantic.....   | 103             | 25                      |                              |                           |         |      |        |      |                      | 5.31                     | +1.03                     | 1.22                 | 0                         | 11                           | 11    | 7          | 13     | e.                           | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Wm. R. Hendrickson.<br>James M. Armstrong.                                  |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 56.2                         | -5.1                      | 83      | 6    | 32     | 5    | 42                   | 6.27                     | +2.32                     | 1.72                 | 0                         | 20                           | 17    | 5          | 9      | w.                           |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 57.0                         | -4.9                      | 86      | 6    | 31     | 5    | 46                   | 5.21                     | +1.59                     | 1.08                 | 0                         | 17                           | 16    | 1          | 14     | w.                           |                                                                                                                          |
| Indian Mills††.....                         | Burlington..... | 76              | 35                      | 58.0                         | -4.1                      | 87      | 6    | 33     | 2    | 44                   | 5.79                     | +2.55                     | 1.42                 | 0                         | 17                           | 8     | 10         | 13     | nw.                          |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54              | 20                      | 56.6                         | -3.6                      | 86      | 6    | 33     | 5    | 41                   | 5.87                     | +2.47                     | 1.56                 | 0                         | 16                           | 12    | 6          | 13     | w.                           | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                             | Burlington..... | 75              | 61                      | 58.0 <sup>b</sup>            | -3.3                      | 82      | 6    | 39     | 5    | 38                   | 5.44                     | +1.42                     | 1.15                 | 0                         | 17                           | 9     | 12         | 10     | nw.                          |                                                                                                                          |
| Northfield††.....                           | Atlantic.....   | 25              | 17                      |                              |                           |         |      |        |      |                      | 4.38                     | +0.91                     | 0.72                 | 0                         | 17                           |       |            |        | .....                        |                                                                                                                          |
| Pleasantville††.....                        | Atlantic.....   | 26              | 26                      | 58.0 <sup>a</sup>            |                           | 77      | 28   | 34     | 5    | 33                   | 5.24                     | +1.98                     | 0.95                 | 0                         | 15                           | 16    | 8          | 7      | nw.                          |                                                                                                                          |
| Runyon.....                                 | Middlesex.....  | 18              |                         | 56.8 <sup>b</sup>            |                           | 83      | 6    |        |      |                      | 6.25                     |                           | 1.87                 | 0                         | 17                           | 11    | 12         | 8      | w.                           | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Frank R. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.           |
| Trenton.....                                | Mercer.....     | 190             | 52                      | 57.2                         | -3.9                      | 82      | 6    | 43     | 10   | 31                   | 4.65                     | +1.13                     | 1.12                 | 0                         | 15                           | 9     | 8          | 14     | w.                           |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 31                      | 57.1                         | -2.8                      | 79      | 6    | 34     | 5    | 41                   | 6.22                     | +2.48                     | 1.13                 | 0                         | 14                           | 11    | 10         | 10     | nw.                          |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 55                      | 59.4 <sup>b</sup>            | -2.9                      | 84      | 6    | 39     | 2†   | 33                   | 6.24                     | +2.61                     | 1.20                 | 0                         | 15                           | 14    | 4          | 13     | sw.                          |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117             | 54                      | 59.2                         | -3.7                      | 84      | 6    | 45     | 10   | 31                   | 4.91                     | +1.71                     | 1.27                 | 0                         | 16                           | 8     | 9          | 14     | w.                           |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 57.8                         | -3.6                      | 87      | 6    | 30     | 23   | 46                   | 5.56                     | +1.78                     | 1.87                 | 0                         | 16                           | 13    | 7          | 11     | w.                           |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 35                      | 55.2 <sup>a</sup>            | -3.6                      | 74      | 17†  | 42     | 5†   | 24                   | 5.09                     | +1.51                     | 1.23                 | 0                         | 14                           | 18    | 3          | 10     | w.                           | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 50                      | 56.8                         | -1.3                      | 75      | 28   | 46     | 5    | 22                   | 3.36                     | +0.36                     | 0.65                 | 0                         | 16                           | 16    | 4          | 11     | s.                           |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 40                      | 58.5                         | -0.1                      | 75      | 28   | 47     | 5    | 21                   | 3.83                     | +0.84                     | 0.92                 | 0                         | 17                           | 11    | 7          | 13     | s.                           |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 17                      | 54.6                         | -3.6                      | 74      | 28   | 38     | 5    | 29                   | 4.80                     | +1.04                     | 1.27                 | 0                         | 14                           | 13    | 9          | 9      | w.                           |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 26                      | 56.4                         | -2.1                      | 72      | 17   | 45     | 10   | 21                   | 4.77                     | +1.07                     | 1.18                 | 0                         | 14                           | 6     | 11         | 14     | w.                           |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 56.3                         | -2.1                      | 75      | 28   | 38     | 5    | 29                   | 4.37                     | +0.96                     | 1.27                 | 0                         | 15                           | 13    | 7          | 11     | w.                           |                                                                                                                          |
| For the State.....                          |                 |                 |                         | 56.8                         | -3.7                      | 87      | 6    | 25     | 5    | 46                   | 5.69                     | +1.96                     | 2.59                 | 0                         | 17                           | 12    | 7          | 12     | w.                           |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Pleasantville is Atlantic City; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



| Daily Precipitation for May, 1924          |                 |              |     |     |   |   |   |     |      |      |     |     |      |      |     |      |     |     |     |     |      |     |     |      |      |      |     |     |     |     |      |      |       |
|--------------------------------------------|-----------------|--------------|-----|-----|---|---|---|-----|------|------|-----|-----|------|------|-----|------|-----|-----|-----|-----|------|-----|-----|------|------|------|-----|-----|-----|-----|------|------|-------|
| Stations                                   | Drainage Basin  | Day of month |     |     |   |   |   |     |      |      |     |     |      |      |     |      |     |     |     |     |      |     |     |      |      |      |     |     |     |     |      |      | Total |
|                                            |                 | 1            | 2   | 3   | 4 | 5 | 6 | 7   | 8    | 9    | 10  | 11  | 12   | 13   | 14  | 15   | 16  | 17  | 18  | 19  | 20   | 21  | 22  | 23   | 24   | 25   | 26  | 27  | 28  | 29  | 30   | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |   |   |   |     |      |      |     |     |      |      |     |      |     |     |     |     |      |     |     |      |      |      |     |     |     |     |      |      |       |
| Belvidere.....                             | Delaware.....   | .13          |     |     |   |   |   | .05 | .28  | 1.33 | .04 | .29 | 1.05 | .02  |     | .50  |     |     | .36 | .02 | .10  | .30 | .03 |      | .31  |      |     | .16 | .18 |     |      | 5.15 |       |
| Charlotteburg.....                         | Passaic.....    | .85          | .06 |     |   |   |   | .04 | *    | *    | *   | *   | *    | 3.88 | .29 |      |     | .29 |     |     | .12  | .18 | .03 |      | .41  |      |     | .29 | .09 | .22 |      | 6.75 |       |
| Culvers Lake.....                          | Delaware.....   | .15          |     |     |   |   |   |     | .28  | 1.37 | .03 | .30 | 1.35 | .04  | .03 | .49  |     |     | .47 |     |      |     |     |      | .22  | .02  |     | .08 | .13 |     | .03  | 5.75 |       |
| Dover.....                                 | Passaic.....    |              | .06 |     |   |   |   |     | *    | 1.64 |     | .15 | 1.50 |      | .39 |      | .04 |     | .43 |     | *    | .38 |     |      | .28  |      |     | .20 | .04 | .18 |      | 5.29 |       |
| Layton.....                                | Delaware.....   | .11          | T.  | .03 |   |   |   |     | .20  | 1.02 | .05 | .40 | 1.31 | .03  | .20 | .55  |     |     | .35 | .02 | .05  | .28 | .02 |      | .85  | .01  |     | .06 | .20 | .35 | .03  | 6.12 |       |
| Newton.....                                | Delaware.....   | T.           |     |     |   |   |   | .02 | .52  | .81  | .03 | *   | 1.24 |      | .30 | .10  | .06 |     | .30 | T.  | .07  | .30 | T.  |      | .14  |      |     | .19 | .01 | .24 |      | 4.33 |       |
| Phillipsburg.....                          | do.....         |              |     |     |   |   |   |     | .18  | 1.20 | .07 | .22 | 1.10 | .04  | .08 | .39  |     |     |     |     | .44  | .12 | .15 | .04  |      | .26  | .05 |     | .08 | .39 |      | .03  | 5.11  |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |   |   |   |     |      |      |     |     |      |      |     |      |     |     |     |     |      |     |     |      |      |      |     |     |     |     |      |      |       |
| Bergen Point.....                          | Coast.....      | .27          | T.  |     |   |   |   | T.  | .45  | 1.57 |     | .15 | 1.61 | T.   |     |      | T.  |     | .26 | .05 | .02  | .28 | .02 |      | .95  | .10  |     | .11 | .12 | .33 | .02  | 6.31 |       |
| Boonton   .....                            | Passaic.....    | .97          |     | T.  |   |   |   |     | .20  | 1.57 | .11 | .12 | 1.49 | .21  | T.  | .14  |     | .05 |     | .42 | .05  | .12 | .10 |      | T.   | .27  |     | T.  | .26 | T.  | .15  | 6.23 |       |
| Chatham   .....                            | do.....         |              |     |     |   |   |   | .14 | .06  | .24  | .26 | .11 | 1.66 | .19  | T.  | .23  |     | .04 |     | .26 | .06  | .11 | .27 |      | .51  |      |     | .29 |     | .11 |      | 4.54 |       |
| Elizabeth.....                             | Coast.....      | .32          | T.  |     |   |   |   |     | *    | 2.93 |     | .13 | 1.65 |      | .03 | T.   |     | .02 | *   | .30 | .05  | *   | .33 |      | *    | .84  |     | *   | .26 | .39 |      | 7.12 |       |
| Flemington.....                            | Raritan.....    | .65          | T.  | .02 |   |   |   | T.  | .20  | 1.07 | .03 | .22 | 1.17 | .02  |     | .30  |     | .03 | .52 |     | .02  | .27 | .03 |      | .21  | .17  |     | .13 | .12 | .36 | .01  | 5.55 |       |
| Highwood.....                              | Hackensack..... | .18          |     | T.  |   |   |   | .09 | .36  | 1.28 | .02 | .13 | 1.50 |      | .02 | T.   | .11 | .21 | .09 | .07 | .25  | .02 |     | .43  | .08  |      | .08 | .15 | .21 | T.  |      | 5.28 |       |
| Jersey City.....                           | Coast.....      | .06          | T.  |     |   |   |   | T.  | .33  | 1.62 | .02 | .16 | 1.08 | .15  |     | .01  | .02 | .02 | .29 |     | .07  | .24 | .15 |      | .95  | .02  |     | .09 | .12 | .40 |      | 5.79 |       |
| Lambertville.....                          | Delaware.....   | .20          | .05 |     |   |   |   | .05 | .55  | 1.46 | .03 | .30 | 1.27 |      | .29 | .06  | .02 | .23 |     | .02 | .40  | .03 |     | .87  | .09  |      | .15 | .17 | .44 |     | 6.68 |      |       |
| Little Falls,   .....                      | Passaic.....    | .68          |     | .06 |   |   |   |     | .25  | 2.22 | .33 | .13 | 1.43 | .27  | .01 | .09  |     | .07 |     | .45 | .08  | .12 | .14 |      | 1.22 |      |     | .19 | .02 | .18 |      | 7.94 |       |
| Newark**.....                              | Coast.....      | .06          | T.  |     |   |   |   | .15 | .40  | 2.59 | T.  | .43 | 1.62 |      | .01 | .02  | T.  | .02 | .23 | .04 | .39  |     |     | .63  |      |      | .27 | T.  | .22 |     | 7.08 |      |       |
| New Brunswick.....                         | Raritan.....    | .40          | .13 |     |   |   |   | .04 | .17  | 1.45 | .03 | .16 | 1.25 |      | .03 |      | .01 | .23 | T.  | .25 | .04  |     | .63 | .79  |      | .07  | .13 | .23 | .04 |     | 6.08 |      |       |
| New Milford.....                           | Hackensack..... | .10          |     |     |   |   |   |     | .36  | 1.14 |     | .25 | 1.18 |      |     | .02  | .04 | .29 |     | .06 | .16  | .03 | .55 |      |      |      | .08 | .12 | .16 |     | 4.54 |      |       |
| Paterson.....                              | Passaic.....    | .58          | .08 |     |   |   |   | T.  | .46  | 2.32 | .06 | .48 | .92  | .01  | .16 | .08  | T.  | .10 |     | .40 | .08  | .22 | .05 |      | .01  | .25  |     | .04 | .20 | .17 |      | 6.67 |       |
| Plainfield.....                            | Raritan.....    | .31          | .02 |     |   |   |   | .03 | 1.18 | 1.54 | .02 | .19 | 1.71 |      | .08 | .01  | .01 | .32 | T.  | .05 | .29  | .01 |     | .95  | .04  |      | .05 | .25 | .27 |     | 7.33 |      |       |
| Somerville.....                            | Raritan.....    | .40          |     |     |   |   |   | .05 | .40  | 1.44 | .04 | .21 | 1.18 | .16  |     | .14  |     | .07 |     | .47 | .03  | .28 |     | .39  | .10  |      | .10 | .20 | .28 | .04 |      | 5.91 |       |
| South Orange.....                          | Rahway.....     | .02          | .02 |     |   |   |   | .22 | 1.55 | 1.05 | .08 | .16 | 1.73 |      | .08 | .09  | .03 | .21 |     | .08 | .35  | .02 |     | .54  |      |      | .26 | .05 | .23 |     | 6.77 |      |       |
| Woodcliff Lake**.....                      | Hackensack..... | .05          |     |     |   |   |   |     | .30  | 1.43 |     | .10 | 1.10 |      |     |      |     | .29 |     | .05 | .08  |     | .48 |      |      |      | .10 | .05 | .14 |     | 4.17 |      |       |
| New York, N. Y***.....                     | Coast.....      | .28          | T.  |     |   |   |   | T.  | .60  | .87  |     | .22 | 1.08 |      | T.  | .01  | .04 |     | .27 |     | .03  | .28 | T.  |      | .95  |      |     | .16 | .04 | .40 |      | 5.23 |       |
| <i>The Southern Interior.</i>              |                 |              |     |     |   |   |   |     |      |      |     |     |      |      |     |      |     |     |     |     |      |     |     |      |      |      |     |     |     |     |      |      |       |
| Belle Plain.....                           | Tuckahoe.....   | .25          | .03 |     |   |   |   |     | .17  | .36  |     | .22 | .43  | .02  |     | .03  | .53 |     |     |     | .40  | .60 | .03 |      | .61  | .20  | .26 | .02 | .04 |     | 4.20 |      |       |
| Bridgeton.....                             | Coast.....      |              | T.  |     |   |   |   |     | .90  |      |     | .12 | .18  |      | T.  | .20  |     | .05 |     | .27 | .62  |     |     | 1.25 |      | .28  | .35 |     | .10 |     | 5.32 |      |       |
| Burlington.....                            | Delaware.....   | .23          |     |     |   |   |   |     | .28  | 1.40 | .02 | .10 | 1.29 | .02  |     | .12  |     |     |     | .28 | .50  | T.  |     | 1.30 | .83  |      | .15 | .20 | .38 | .06 |      | 7.16 |       |
| Clayton.....                               | Delaware.....   | .25          |     |     |   |   |   |     | .35  | T.   | .01 | .30 | .82  | T.   |     | .22  |     | .13 |     | .29 | .54  | .01 |     | .90  |      | .22  |     | .54 | .16 |     | 4.74 |      |       |
| Hammononton.....                           | Mullica.....    |              |     |     |   |   |   |     | .75  | .63  | .39 | .13 | 1.22 |      |     | .03  |     |     |     | .10 | 1.10 |     |     | .45  | .20  | .09  |     | .25 |     |     | 5.31 |      |       |
| Hightstown.....                            | Raritan.....    | .28          |     |     |   |   |   | .03 | .26  | 1.72 | .05 | .17 | 1.31 |      |     | .03  | .03 | .02 |     | .13 | .05  | .42 | .03 |      | .56  | .45  |     | .17 | .13 | .41 | .02  | 6.27 |       |
| Imlaystown.....                            | Delaware.....   | .26          |     |     |   |   |   |     | 1.08 | .02  | .21 | .94 |      |      | .03 | .05  |     | .16 |     | .08 | .47  | .04 |     | .70  | .65  |      | .05 | .13 | .20 | .14 |      | 5.21 |       |
| Indian Mills.....                          | Mullica.....    | .20          |     | .02 |   |   |   |     | .38  | .72  |     | .32 | 1.42 |      | .05 | .16  |     |     | .13 | .25 | .48  |     |     | .30  | .25  | .12  | .22 | .35 | .42 |     | 5.79 |      |       |
| Lakewood.....                              | Metedeconk..... | .24          |     | .01 |   |   |   |     | .23  | 1.15 | .04 | .16 | 1.56 |      |     | .11  |     | .17 | .10 | .50 | .07  |     |     | .70  |      | .11  | .25 | .45 |     |     | 5.87 |      |       |
| Moorestown.....                            | Delaware.....   | *            |     |     |   |   |   |     | .58  | .83  | .02 | .20 | 1.15 |      | .10 | .02  |     | .08 |     | .12 | .50  |     |     | .80  | .26  | .08  | .20 | .15 | .40 |     | 5.44 |      |       |
| Northfield.....                            | Coast.....      | .47          |     |     |   |   |   |     | .24  | .15  | .01 | .08 | .50  |      | .10 | .55  |     | .08 |     | .30 | .72  |     |     | .20  | .38  | .17  | .16 | .15 | .12 |     | 4.38 |      |       |
| Pleasantville   .....                      | Coast.....      | .95          |     |     |   |   |   |     | .26  | .32  | .02 | T.  | .49  | .13  |     | .10  | .53 | T.  |     | .04 |      | .57 |     |      | .69  | .17  |     | .43 |     | .08 | 5.24 |      |       |
| Runyon.....                                | Coast.....      | .35          |     |     |   |   |   |     | .18  | 1.87 | .02 | .15 | 1.26 | .02  |     | *    |     |     | .28 |     | .29  | .05 |     | 1.36 |      | .06  | .07 | .26 | .03 |     | 6.25 |      |       |
| Trenton***.....                            | Delaware.....   | .14          | .01 |     |   |   |   |     | .82  | .40  | T.  | .35 | .71  | .01  | .09 | T.   | T.  | *   |     | .12 | T.   | .01 | .38 |      | T.   | 1.11 | .01 |     | .22 | T.  |      | 4.65 |       |
| Tuckerton.....                             | Coast.....      | .49          |     |     |   |   |   |     | .42  | *    |     | *   | 1.00 |      |     | .58  |     | .14 |     |     | 1.13 |     |     | .45  | .95  | .24  | .42 | .22 | .18 |     | 6.22 |      |       |
| Vineland.....                              | Maurice.....    | .54          |     |     |   |   |   |     | *    | .84  | .02 | .27 | *    |      |     | 1.00 |     | .08 |     | .31 | .67  | .02 |     | 1.20 | .20  | .30  | .45 | .10 | .24 |     | 6.24 |      |       |
| Philadelphia, Pa.....                      | Delaware.....   | .11          |     |     |   |   |   | .01 | .76  | .16  |     | .32 | .59  |      | .17 |      | .01 |     | .13 |     | .08  | .48 |     | 1.27 | .07  | T.   | .35 | .01 | .39 |     | 4.91 |      |       |
| <i>The Sea Coast.</i>                      |                 |              |     |     |   |   |   |     |      |      |     |     |      |      |     |      |     |     |     |     |      |     |     |      |      |      |     |     |     |     |      |      |       |
| Asbury Park.....                           | Coast.....      | .32          |     |     |   |   |   |     | .15  | 1.00 |     | .25 | 1.23 |      | .02 | .04  | .08 | .11 |     | .05 |      | .55 |     | .68  |      |      |     | .26 | .35 |     | 5.09 |      |       |
| Atlantic City***.....                      | do.....         |              |     |     |   |   |   | .09 | .12  | .08  |     | .13 | .39  |      | .01 | .08  | .56 |     | .01 |     | .21  | .63 |     | .36  | .25  | .12  | .22 | T.  | .10 |     | 3.36 |      |       |
| Cape May City.....                         | do.....         | .07          |     |     |   |   |   |     | .35  | .10  | T.  | .08 | .34  |      | .09 | .36  |     |     | .07 | .32 | .27  | .01 |     | .38  | .54  | .33  | .13 | .03 | .36 |     | 3.83 |      |       |
| Long Branch**.....                         | do.....         | .02          |     |     |   |   |   |     | .64  | .49  | T.  | .42 | 1.27 |      | .09 | .07  |     |     | .09 | .05 | .46  | T.  |     | .63  | .01  |      | .16 | .02 | .49 |     | 4.80 |      |       |
| Sandy Hook***.....                         | do.....         | .02          | T.  |     |   |   |   | T.  | .86  | .50  |     | .20 | 1.07 |      | T.  | .01  | .05 |     | .12 |     | .01  | .27 | T.  | T.   | 1.14 |      |     | .19 | .06 | .27 |      | 4.77 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

| MISCELLANEOUS DATA    |              |         |      |        |      |                 |                |           |          |                                         |                                        |                                    |  |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------|-----------------------------------------|----------------------------------------|------------------------------------|--|
| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture |                                         | Sun-<br>shine                          |                                    |  |
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |          | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |  |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date     |                                         |                                        |                                    |  |
| Atlantic City.....    | 29.86        | 30.20   | 10   | 29.34  | 1    | 19              | 50             | e.        | 12       | 75                                      | 75                                     | 60                                 |  |
| Capo May City.....    | 29.91        | 30.21   | 10   | 29.56  | 1    | 10              | 42             | s.        | 24       | 77                                      | 79                                     | .....                              |  |
| Long Branch.....      |              |         |      |        |      |                 | 56             | ne.       | 11       |                                         |                                        |                                    |  |
| Newark.....           |              |         |      |        |      |                 |                |           |          |                                         |                                        |                                    |  |
| New York, N. Y.....   | 29.85        | 30.23   | 11   | 29.34  | 1    | 13              | 54             | nw.       | 30       | 72                                      | 69                                     | .....                              |  |
| Philadelphia, Pa..... | 29.87        | 30.21   | 10   | 29.36  | 1    | 10              | 39             | sw.       | 18       | 70                                      | 64                                     | 50                                 |  |
| Sandy Hook.....       | 29.85        | 30.22   | 10   | 29.31  | 1    | 16              | 56             | s.        | 24       | 74                                      | 74                                     | 57                                 |  |
| Trenton.....          | 29.87        | 30.21   | 11   | 29.35  | 1    | 13              | 29             | sw.       | 24       | 74                                      | 75                                     | 54                                 |  |



## Daily Temperatures for May, 1924

| Stations                             | 1       | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31                | Mean              |                   |
|--------------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |                   |                   |
| Belvidere.....                       | Maximum | 65   | 72   | 68   | 63   | 84   | 71   | 68   | 60   | 58   | 55   | .... | 66   | 67   | 66   | 65   | .... | 75   | 60   | 61   | 49   | 55   | 70   | 68   | .... | 59   | 72   | 65   | 64   | 68   | 65.0 <sup>a</sup> |                   |                   |
|                                      | Minimum | 47   | 33   | 41   | 38   | 31   | 41   | 48   | 55   | .... | 43   | 45   | 45   | 41   | 48   | 50   | 47   | 43   | 48   | 48   | 45   | 44   | 42   | 40   | .... | 42   | 44   | 43   | 47   | 40   | 44.1 <sup>b</sup> |                   |                   |
| Charlotteburg.....                   | Maximum | 61   | 66   | 63   | 68   | 67   | 74   | 72   | 66   | 62   | 49   | 54   | 57   | 64   | 70   | 66   | 65   | 68   | 74   | 72   | 63   | 50   | 59   | 70   | .... | 42   | 44   | 62   | 72   | 68   | 62                | 63                | 64.7              |
|                                      | Minimum | 46   | 27   | 38   | 40   | 25   | 36   | 40   | 52   | 41   | 40   | 42   | 45   | 38   | 41   | 49   | 44   | .... | 42   | 48   | 43   | 41   | 40   | 31   | 58   | 45   | 37   | 37   | 54   | 41   | 46                | 39                | 41.5 <sup>a</sup> |
| Dover.....                           | Maximum | 63   | 67   | 69   | 60   | 67   | 79   | 68   | 62   | 58   | 55   | 52   | 57   | 65   | 70   | 65   | 61   | 72   | 74   | 68   | 60   | 55   | 63   | 71   | 69   | 63   | 64   | 59   | 71   | 66   | 61                | 69                | 64.7              |
|                                      | Minimum | 46   | 31   | 43   | 43   | 30   | 40   | 49   | 53   | 45   | 42   | 43   | 45   | 40   | 47   | 51   | 48   | 45   | 50   | 49   | 48   | 44   | 42   | 37   | 49   | 44   | 43   | 46   | 54   | 48   | 47                | 41                | 44.6              |
| Layton.....                          | Maximum | 61   | 67   | 76   | 63   | 69   | 75   | 74   | 62   | 56   | 57   | 55   | 58   | 66   | 73   | 67   | 65   | 76   | 75   | 61   | 56   | 52   | 61   | 71   | 69   | 64   | 65   | 59   | 72   | 66   | 62                | 66                | 65.1              |
|                                      | Minimum | 47   | 28   | 42   | 50   | 28   | .... | 44   | 52   | 48   | 43   | 45   | 45   | 42   | 42   | 51   | 46   | 40   | 43   | 42   | 43   | 41   | 40   | 33   | 56   | 40   | 38   | 38   | 56   | 45   | 45                | 33                | 42.9 <sup>a</sup> |
| Newton.....                          | Maximum | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              | ....              | ....              |
|                                      | Minimum | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              | ....              | ....              |
| Phillipsburg.....                    | Maximum | 62   | 68   | 74   | 60   | 69   | 86   | 69   | 63   | 58   | 57   | 51   | 61   | 69   | 73   | 66   | 65   | 67   | 69   | 58   | 50   | 65   | 73   | 73   | 64   | 65   | 60   | 73   | 66   | 64   | 71                | 65.9              |                   |
|                                      | Minimum | 46   | 35   | 43   | 44   | 34   | 44   | 50   | 55   | 48   | 46   | 47   | 49   | 44   | 51   | 53   | 49   | 46   | 48   | 56   | 48   | 47   | 43   | 41   | 59   | 45   | 52   | 45   | 56   | 49   | 50                | 40                | 47.2              |
| Sussex.....                          | Maximum | 63   | 68   | 75   | 65   | 72   | 69   | 76   | 72   | 64   | 57   | 57   | 57   | 67   | 75   | 68   | 66   | 75   | 77   | 72   | 55   | 51   | 63   | 73   | 72   | 65   | 63   | 61   | 78   | .... | 61                | 70                | 67.1 <sup>a</sup> |
|                                      | Minimum | 48   | 29   | 41   | 38   | 27   | 40   | 41   | 40   | 47   | 42   | 45   | 44   | 43   | 44   | 51   | 46   | 40   | 42   | 45   | 42   | 40   | 41   | 31   | 54   | 42   | 42   | 41   | .... | 47   | 32                | 41.6 <sup>b</sup> |                   |
| The Red Sandstone Plain.             |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |                   |                   |
| Bergen Point.....                    | Maximum | 67   | 67   | 64   | 63   | 67   | 70   | 67   | 63   | 57   | 54   | 49   | 61   | 68   | 67   | 68   | 63   | 74   | 80   | 71   | 63   | 52   | 64   | 73   | 76   | 66   | 65   | 61   | 73   | 68   | 66                | 69                | 65.7              |
|                                      | Minimum | 49   | 41   | 47   | 53   | 49   | 47   | 47   | 51   | 45   | 45   | 45   | 45   | 45   | 54   | 53   | 50   | 48   | 58   | 56   | 53   | 48   | 48   | 44   | 60   | .... | 47   | .... | 54   | 55   | 52                | 47                | 49.2 <sup>b</sup> |
| Boonton§§.....                       | Maximum | 63   | 67   | 71   | 61   | 67   | 75   | 68   | 65   | 53   | 55   | 49   | 59   | 67   | 71   | 65   | 61   | 72   | 80   | 68   | 54   | 51   | 62   | 73   | 73   | 61   | 64   | 62   | 72   | 70   | 64                | 69                | 64.9              |
|                                      | Minimum | 45   | 31   | 41   | 48   | 29   | 40   | 47   | 51   | 50   | 42   | 43   | 47   | 39   | 46   | 51   | 46   | 42   | 44   | 51   | 49   | 40   | 43   | 35   | 53   | 45   | 43   | 40   | 52   | 48   | 49                | 35                | 44.0              |
| Elizabeth.....                       | Maximum | 65   | 70   | 67   | 65   | 70   | 77   | 67   | 62   | 61   | 54   | 53   | 63   | 69   | 72   | 69   | 62   | 76   | 80   | 73   | 66   | 54   | 66   | 73   | 78   | 65   | 66   | 62   | 76   | 71   | 68                | 71                | 67.5              |
|                                      | Minimum | 47   | 36   | 48   | 53   | 35   | 44   | 51   | 50   | 48   | 44   | 45   | 46   | 42   | 53   | 52   | 51   | 47   | 53   | 52   | 52   | 49   | 46   | 41   | 57   | 49   | 46   | 48   | 56   | 54   | 50                | 47                | 48.1              |
| Flemington.....                      | Maximum | 66   | 68   | 75   | 68   | 71   | 84   | 70   | 62   | 56   | 55   | 55   | 60   | 73   | 74   | 68   | 64   | 74   | 76   | 72   | 65   | 53   | 65   | 74   | 73   | 66   | 61   | 72   | 68   | 65   | 73                | 67.5              |                   |
|                                      | Minimum | 47   | 34   | 42   | 52   | 33   | 42   | 51   | 53   | 47   | 43   | 45   | 45   | 42   | 50   | 50   | 49   | 46   | 47   | 51   | 50   | 46   | 43   | 39   | 57   | 45   | 45   | 44   | 54   | 50   | 49                | 41                | 46.2              |
| Highwood.....                        | Maximum | 66   | 70   | 68   | 63   | 70   | 69   | 65   | 64   | 60   | 53   | 50   | 61   | 67   | 69   | 63   | 76   | 76   | 69   | 61   | 52   | 64   | 71   | 74   | 62   | 64   | 61   | 74   | 71   | 65   | 67                | 65.1              |                   |
|                                      | Minimum | 48   | 34   | 43   | 52   | 33   | 43   | 48   | 50   | 46   | 43   | 45   | 46   | 41   | 47   | 53   | 49   | 44   | 49   | 51   | 49   | 46   | 43   | 37   | 58   | 49   | 46   | 47   | 55   | 49   | 48                | 44                | 46.3              |
| Jersey City.....                     | Maximum | 64   | 67   | 66   | 64   | 68   | 74   | 65   | 62   | 53   | 54   | 51   | 60   | 68   | 72   | 67   | 60   | 73   | 76   | 69   | 61   | 52   | 64   | 71   | 74   | 62   | 64   | 61   | 74   | 71   | 65                | 67                | 65.1              |
|                                      | Minimum | 50   | 47   | 47   | 51   | 47   | 52   | 49   | 49   | 48   | 44   | 44   | 45   | 45   | 54   | 52   | 54   | 50   | 54   | 53   | 50   | 46   | 47   | 49   | 57   | 49   | 46   | 51   | 53   | 55   | 51                | 47                | 49.5              |
| Lambertville.....                    | Maximum | 61   | 66   | 74   | 59   | 67   | 82   | 65   | 61   | 55   | 53   | 51   | 60   | 67   | 72   | 64   | 63   | 72   | 75   | 67   | 60   | 51   | 61   | 71   | 72   | 62   | 62   | 72   | 68   | 63   | 67                | 64                | 7                 |
|                                      | Minimum | 47   | 39   | 43   | 47   | 38   | 45   | 49   | 51   | 46   | 43   | 45   | 45   | 42   | 52   | 50   | 50   | 47   | 51   | 51   | 50   | 47   | 44   | 40   | 56   | 46   | 44   | 47   | 55   | 52   | 49                | 42                | 46.9              |
| Little Falls§§.....                  | Maximum | 68   | 75   | 78   | 68   | 75   | 77   | 70   | 75   | 55   | 55   | 49   | 60   | 68   | 78   | 70   | 64   | 75   | 83   | 69   | 53   | 55   | .... | 72   | 80   | 66   | 65   | 63   | 80   | 76   | 72                | 76                | 69.1 <sup>a</sup> |
|                                      | Minimum | 48   | 32   | 42   | 51   | 43   | 43   | 49   | 50   | 49   | 43   | 45   | 45   | 41   | 48   | 52   | 49   | 46   | 49   | 52   | 50   | 44   | 41   | 38   | 50   | 47   | 45   | 48   | 54   | 49   | 50                | 44                | 46.5              |
| Newark.....                          | Maximum | 66   | 70   | 68   | 62   | 69   | 72   | 69   | 65   | 57   | 54   | 50   | 52   | 77   | 70   | 68   | 63   | 76   | 80   | 71   | 62   | 50   | 66   | 76   | 76   | 63   | 65   | 63   | 74   | 72   | 65                | 74                | 66.6              |
|                                      | Minimum | 51   | 45   | 46   | 50   | 46   | 52   | 50   | 50   | 44   | 43   | 45   | 44   | 44   | 55   | 53   | 54   | 50   | 55   | 55   | 49   | 46   | 46   | 49   | 60   | 46   | 47   | 52   | 55   | 57   | 51                | 47                | 49.6              |
| New Brunswick.....                   | Maximum | 64   | 68   | 70   | 69   | 68   | 79   | 60   | 58   | 54   | 54   | 63   | 68   | 74   | 69   | 64   | 74   | 77   | 73   | 65   | 54   | 62   | 73   | 76   | 62   | 62   | 64   | 74   | 68   | 64   | 68                | 66.2              |                   |
|                                      | Minimum | 47   | 36   | 44   | 53   | 36   | 43   | 48   | 50   | 47   | 44   | 45   | 46   | 43   | 52   | 52   | 49   | 45   | 52   | 51   | 52   | 46   | 44   | 39   | 56   | 49   | 46   | 46   | 54   | 53   | 50                | 42                | 47.1              |
| Paterson.....                        | Maximum | 66   | 71   | 70   | 66   | 72   | 73   | 69   | 68   | 60   | 55   | 56   | 60   | 70   | 71   | 66   | 78   | 80   | 70   | 66   | 52   | 66   | 73   | 77   | 65   | 67   | 63   | 76   | 70   | 69   | 70                | 68.0              |                   |
|                                      | Minimum | 47   | 38   | 45   | 52   | 40   | 47   | 51   | 52   | 47   | 44   | 45   | 45   | 43   | 51   | 53   | 51   | 48   | 50   | 51   | 50   | 46   | 46   | 43   | 58   | .... | 48   | 50   | 55   | 53   | 51                | 46                | 48.2 <sup>a</sup> |
| Plainfield.....                      | Maximum | 64   | 68   | 65   | 64   | 69   | 79   | 65   | 62   | 52   | 55   | 52   | 61   | 69   | 74   | 67   | 59   | 74   | 78   | 69   | 62   | 51   | 65   | 72   | 75   | 63   | 65   | 62   | 74   | 72   | 66                | 67                | 65.8              |
|                                      | Minimum | 46   | 32   | 44   | 54   | 31   | 41   | 49   | 51   | 51   | 43   | 43   | 45   | 41   | 46   | 51   | 54   | 44   | 46   | 51   | 51   | 45   | 43   | 37   | 54   | 48   | 45   | 43   | 50   | 50   | 39                | 45.7              |                   |
| Somerville.....                      | Maximum | 66   | 70   | 72   | 64   | 71   | 83   | 72   | 60   | 58   | 55   | 51   | 63   | 70   | 74   | 70   | 64   | 77   | 77   | 70   | 67   | 55   | 65   | 74   | 75   | 64   | 65   | 63   | 75   | 70   | 66                | 70                | 67.7              |
|                                      | Minimum | 47   | 32   | 42   | 44   | 30   | 40   | 49   | 54   | 47   | 44   | 45   | 46   | 42   | 48   | 52   | 49   | 43   | 48   | 51   | 52   | 47   | 43   | 38   | 57   | 47   | 41   | 49   | 55   | 48   | 50                | 41                | 45.6              |
| South Orange.....                    | Maximum | 64   | 68   | 66   | 62   | 68   | 69   | 65   | 63   | 56   | 53   | 49   | 59   | 68   | 69   | 67   | 63   | 74   | 77   | 68   | 57   | 49   | 64   | 71   | 74   | 63   | 65   | 63   | 72   | 69   | 64                | 70                | 64.8              |
|                                      | Minimum | 49   | 38   | 45   | 50   | 38   | 47   | 49   | 49   | 43   | 43   | 45   | 47   | 43   | 52   | 53   | 51   | 48   | 50   | 52   | 48   | 46   | 46   | 41   | 55   | 49   | 47   | 46   | 55   | 52   | 48                | 45                | 47.4              |
| New York, N. Y.....                  | Maximum | 62   | 64   | 61   | 60   | 65   | 68   | 65   | 63   | 54   | 52   | 49   | 56   | 65   | 64   | 65   | 60   | 70   | 70   | 67   | 60   | 52   | 62   | 69   | 71   | 60   | 62   | 60   | 70   | 69   | 62                | 67                | 62.7              |
|                                      | Minimum | 51   | 47   | 47   | 51   | 48   | 53   | 49   | 48   | 44   | 44   | 44   | 46   | 46   | 56   | 53   | 54   | 50   | 5    |      |      |      |      |      |      |      |      |      |      |      |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXIX.

JUNE, 1924.

No. 6

### GENERAL SUMMARY.

June in New Jersey is a month of very great possibilities in extremes of rain and temperature. Rain has varied in previous years from four-tenths of an inch to fifteen inches, and temperature from 30° to 106°. This year the record of 30° occurred, and the mean temperature was low, although the years of 1910, 1915, 1916 and 1918, were as cool or cooler. But this June was in marked contrast to last June, which was the warmest on record. Rain was not sufficiently in excess to arouse comment, but, in connection with previous wet months, it afforded more than a desirable quantity of soil moisture for the best conditions of plant growth. The frequency of rain was somewhat greater than normal, although under the extreme record, and was distributed through the month with fair regularity. Much less rain fell in the northern half of the State and along the northern and southern seaboard counties than elsewhere, and deficiencies were apparent from Somerset County northward.

The outstanding feature of the month was the storm in the afternoon of the 25th, following the extreme high temperature of the season and in connection with the lowest barometric pressure. Heavy downpours of rain with violent squalls did considerable damage of a minor character, such as injury to vegetation, tree and shrub foliage, and disrupting or straining of insecure buildings, and moderate washouts in scattered localities.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations was 66.8°, which was 1.8° below the normal. The highest temperature was 95° at Little Falls and Newark on the 25th, and the lowest, 30° at Charlotteburg on the 1st. The highest monthly mean temperature was 70.0° at Vineland, and the lowest, 63.6° at Charlotteburg. The greatest daily range of temperature was 42° at Charlotteburg on the 22d.

The temperature departure from the normal for the year 1924 to date, by sections, is: The Highlands, -1.2°; Red Sandstone Plain, -1.1°; Southern Interior, -1.1°; Sea Coast, -0.3°.

### PRECIPITATION.

The average total rainfall for the State, as deduced from observations of 42 stations, was 4.20 inches, which was 0.48 inch above the normal. The greatest monthly amount was 7.32 inches at Imlaystown, and the least, 1.72 inches at Charlotteburg. The greatest amount of rain in any 24 consecutive hours was 2.44 inches at Chatham on the 26th. The average number of days on which 0.01 inch or more rain fell was 13, which was 4 more than the normal. The precipitation accumulated departure from the normal for the year 1924, to date, by sections, is: The Highlands, +0.69 inch; Red Sandstone Plain, +4.53 inches; Southern Interior, +7.97 inches; Sea Coast, +2.01 inches.

### WIND.

The prevailing wind direction for the month was from the southwest, with an average velocity of 10 miles per hour, which was 2 miles below the normal. The highest velocity for the month, sustained for 5 consecutive minutes, was 62 miles per hour from the northwest on the 25th at Trenton.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was

11, which was 1 less than the normal; partly cloudy, 11, or normal; cloudy, 8, which was 1 more than the normal. The per cent of possible sunshine was 58, which was 3 per cent below the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 2.3 feet, and the highest stage, 3.8 feet on the 1st. At Trenton the mean daily stage was 1.5 feet, which was 0.4 foot below the normal; the highest stage was 2.4 feet on the 1st.

The mean atmospheric pressure, reduced to sea level, was 29.96 inches, which was 0.02 inch below the normal. The highest reading was 30.34 inches at Sandy Hook on the 11th, and the lowest, 29.55 inches at Sandy Hook and Trenton on the 25th.

Thunderstorms occurred in some portions of the State on the 4th, 6th, 7th, 8th, daily from the 13th to 21st, inclusive, 23d, 24th, 25th, 29th, and 30th. Dense fog occurred on the 7th, 8th, and daily from the 18th to 21st, inclusive. Solar halos were observed on the 1st, 3d, 5th, 6th, 10th, 11th, and 22d, and a lunar halo on the 15th. The aurora was visible at Sandy Hook on the 10th. Frost or freezing temperature occurred at Dover, Charlotteburg, and Layton on the 1st. Hail in light amounts fell at Lambertville on the 7th, Elizabeth on the 14th, Imlaystown on the 20th, and Paterson, Phillipsburg, and Rahway on the 25th.

### OBITUARY.

Mr. Frank R. Austin who opened the station at Tuckerton May 1st, 1898, and continued the observations there ever since, died June 30th.

### COMPARATIVE DATA FOR JUNE

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | 0.01 inch or more prec |
| 1885..... | 68.7        | 97      | 39     | 1.79          | 3.37     | 0.72  | .....      | .....         | .....  | .....                  |
| 1886..... | 67.1        | 91      | 41     | 3.38          | 5.79     | 2.22  | .....      | .....         | .....  | .....                  |
| 1887..... | 68.2        | 97      | 42     | 6.77          | 10.29    | 4.21  | .....      | .....         | 9      | 10                     |
| 1888..... | 70.8        | 99      | 39     | 2.59          | 5.69     | 1.67  | .....      | .....         | 5      | 6                      |
| 1889..... | 69.9        | 91      | 40     | 3.73          | 6.75     | 2.39  | .....      | .....         | 10     | 10                     |
| 1890..... | 70.7        | 95      | 42     | 3.59          | 5.16     | 0.99  | 11         | 13            | 6      | 7                      |
| 1891..... | 69.7        | 102     | 38     | 2.92          | 6.71     | 1.24  | 14         | 9             | 7      | 5                      |
| 1892..... | 72.4        | 98      | 44     | 3.85          | 6.12     | 1.58  | 10         | 12            | 8      | 11                     |
| 1893..... | 69.7        | 103     | 40     | 2.95          | 7.02     | 0.46  | 10         | 11            | 9      | 8                      |
| 1894..... | 70.6        | 102     | 35     | 2.28          | 5.90     | 0.99  | 14         | 11            | 5      | 9                      |
| 1895..... | 71.7        | 103     | 39     | 3.24          | 5.99     | 0.93  | 11         | 11            | 8      | 10                     |
| 1896..... | 68.1        | 96      | 37     | 5.46          | 13.45    | 2.64  | 12         | 10            | 8      | 10                     |
| 1897..... | 66.1        | 95      | 35     | 3.38          | 5.50     | 2.12  | 10         | 13            | 7      | 10                     |
| 1898..... | 70.1        | 100     | 38     | 2.10          | 3.54     | 1.13  | 14         | 12            | 4      | 8                      |
| 1899..... | 72.3        | 103     | 38     | 2.50          | 4.34     | 1.01  | 15         | 10            | 5      | 7                      |
| 1900..... | 70.4        | 97      | 39     | 3.08          | 4.91     | 1.10  | 12         | 12            | 6      | 8                      |
| 1901..... | 70.0        | 103     | 35     | 1.57          | 4.36     | 0.73  | 18         | 8             | 4      | 5                      |
| 1902..... | 67.5        | 99      | 37     | 6.57          | 10.21    | 4.54  | 14         | 11            | 5      | 11                     |
| 1903..... | 64.0        | 92      | 37     | 7.68          | 15.02    | 2.39  | 6          | 10            | 14     | 15                     |
| 1904..... | 68.6        | 100     | 34     | 3.13          | 5.44     | 1.91  | 13         | 10            | 7      | 12                     |
| 1905..... | 68.3        | 96      | 35     | 3.43          | 8.71     | 1.67  | 11         | 12            | 7      | 10                     |
| 1906..... | 70.4        | 98      | 38     | 4.48          | 9.18     | 1.45  | 11         | 11            | 8      | 12                     |
| 1907..... | 64.7        | 96      | 31     | 4.41          | 6.85     | 3.15  | 12         | 10            | 8      | 10                     |
| 1908..... | 69.9        | 99      | 35     | 2.32          | 4.63     | 0.77  | 16         | 12            | 2      | 4                      |
| 1909..... | 70.0        | 99      | 36     | 3.26          | 5.70     | 1.71  | 9          | 10            | 11     | 12                     |
| 1910..... | 66.9        | 95      | 34     | 5.17          | 8.01     | 2.66  | 9          | 10            | 11     | 13                     |
| 1911..... | 68.9        | 97      | 40     | 5.36          | 10.11    | 2.84  | 9          | 12            | 9      | 14                     |
| 1912..... | 68.0        | 98      | 33     | 1.94          | 3.61     | 0.91  | 9          | 12            | 9      | 8                      |
| 1913..... | 69.1        | 98      | 31     | 1.80          | 3.76     | 0.68  | 19         | 8             | 3      | 5                      |
| 1914..... | 68.5        | 98      | 35     | 2.66          | 4.85     | 1.09  | 16         | 9             | 6      | 7                      |
| 1915..... | 67.0        | 95      | 37     | 3.12          | 6.51     | 1.40  | 13         | 10            | 7      | 11                     |
| 1916..... | 64.7        | 87      | 36     | 4.20          | 5.99     | 2.22  | 10         | 9             | 11     | 13                     |
| 1917..... | 68.9        | 95      | 40     | 4.27          | 7.14     | 2.80  | 13         | 10            | 7      | 12                     |
| 1918..... | 66.3        | 96      | 32     | 3.43          | 6.21     | 1.35  | 15         | 9             | 6      | 8                      |
| 1919..... | 69.5        | 99      | 38     | 3.16          | 3.58     | 0.37  | 16         | 7             | 7      | 8                      |
| 1920..... | 68.4        | 98      | 38     | 6.18          | 11.26    | 3.12  | 13         | 9             | 8      | 12                     |
| 1921..... | 70.4        | 100     | 33     | 3.23          | 5.64     | 1.40  | 18         | 7             | 5      | 8                      |
| 1922..... | 71.1        | 95      | 39     | 6.31          | 11.50    | 2.97  | 12         | 9             | 9      | 15                     |
| 1923..... | 72.5        | 108     | 37     | 2.08          | 5.44     | 0.72  | 18         | 8             | 4      | 7                      |
| 1924..... | 66.8        | 95      | 30     | 4.20          | 7.32     | 1.72  | 11         | 11            | 8      | 13                     |



## Climatological Data for June, 1924

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers            |                             |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|----------------------|-----------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |                      | Cloudy                      |
|                                             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                      |                             |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                      |                             |
| Belvidere.....                              | Warren.....     | 289             | 33                      | 65.2 <sup>d</sup>            | -3.6                      | 85      | 18†   | 38     | 1     | 28                       | 3.42  | -0.58                     | 1.36                 | 0                         | 11                           | 18    | 6          | 6                            | .....                | Miss C. S. Hixson.          |
| Charlotteburg.....                          | Passaic.....    | 719             | 32                      | 63.6                         | -1.2                      | 87      | 22    | 30     | 1     | 42                       | 1.72  | -2.40                     | 0.54                 | 0                         | 10                           | 13    | 6          | 10                           | w.                   | Newark Water Dept.          |
| Culvers Lake††.....                         | Sussex.....     | 848             | 28                      | .....                        | .....                     | .....   | ..... | 38     | 1     | .....                    | 2.02  | -2.59                     | 0.41                 | 0                         | 14                           | 14    | 9          | 7                            | s.                   | Brice E. Riker.             |
| Dover.....                                  | Morris.....     | 600             | 40                      | 65.0 <sup>a</sup>            | -1.7                      | 88      | 21†   | 36     | 1     | 37                       | 3.06  | -0.97                     | 0.79                 | 0                         | 11                           | 6     | 11         | 13                           | .....                | William C. Harris.          |
| Layton.....                                 | Sussex.....     | 480             | 23                      | 64.1                         | -1.4                      | 87      | 22    | 32     | 1     | 38                       | 2.55  | -1.24                     | 0.55                 | 0                         | 14                           | 16    | 5          | 9                            | sw.                  | A. M. Depue.                |
| Newton.....                                 | Sussex.....     | 769             | 41                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....                | Irving J. Kern.             |
| Phillipsburg.....                           | Warren.....     | 363             | 41                      | 66.4                         | -2.9                      | 91      | 25    | 40     | 1     | 34                       | 4.32  | +0.69                     | 1.43                 | 0                         | 10                           | 18    | 7          | 5                            | .....                | Town Engineer.              |
| Sussex.....                                 | Sussex.....     | 442             | 30                      | 65.4 <sup>a</sup>            | -1.4                      | 88      | 22    | 34     | 1     | 38                       | 2.19  | -1.49                     | 0.43                 | 0                         | 11                           | ..... | .....      | .....                        | w.                   | A. J. W. Mowatt.            |
| Means and extremes.....                     |                 |                 |                         | 64.8                         | -2.2                      | 91      | 25    | 30     | 1     | 42                       | 2.75  | -1.23                     | 1.43                 | 0                         | 12                           | 14    | 8          | 8                            | w.                   |                             |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                      |                             |
| Bergen Point††.....                         | Hudson.....     | 37              | 27                      | 67.8                         | -0.6                      | 91      | 25    | 50     | 10†   | 32                       | 3.56  | -0.22                     | 1.09                 | 0                         | 10                           | 1     | 23         | 6                            | sw.                  | William H. Mitchell.        |
| Boonton.....                                | Morris.....     | 400             | 34                      | 64.8                         | -2.8                      | 89      | 25    | 37     | 1     | 37                       | 2.25  | -1.42                     | 0.91                 | 0                         | 12                           | 19    | 2          | 9                            | ne.                  | John Kline.                 |
| Chatham.....                                | Morris.....     | 185             | 20                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 4.20  | +0.14                     | 2.44                 | 0                         | 7                            | 21    | 6          | 3                            | .....                | Paul Molitor, Sr.           |
| Elizabeth.....                              | Union.....      | 45              | 45                      | 68.2                         | -2.3                      | 93      | 25    | 41     | 1     | 34                       | 3.68  | +0.06                     | 0.75                 | 0                         | 12                           | 6     | 17         | 7                            | sw.                  | L. B. Bonnett.              |
| Flemington.....                             | Hunterdon.....  | 140             | 38                      | 67.3                         | -1.9                      | 90      | 21†   | 40     | 1     | 33                       | 5.96  | +2.12                     | 1.03                 | 0                         | 16                           | 13    | 10         | 7                            | w.                   | Hiram E. Deats.             |
| Highwood††.....                             | Bergen.....     | 90              | 36                      | 65.6                         | -2.0                      | 90      | 25    | 38     | 1     | 33                       | 2.64  | -1.05                     | 0.82                 | 0                         | 11                           | 5     | 14         | 11                           | sw.                  | Charles J. Bates.           |
| Jersey City.....                            | Hudson.....     | 10              | 26                      | 67.8                         | -2.1                      | 92      | 25    | 51     | 1†    | 29                       | 3.16  | -0.34                     | 1.11                 | 0                         | 13                           | 8     | 11         | 11                           | sw.                  | S. K. Pearson, Jr.          |
| Lambertville.....                           | Hunterdon.....  | 370             | 37                      | 66.2                         | -3.5                      | 89      | 25    | 45     | 1     | 27                       | 4.90  | +0.99                     | 0.76                 | 0                         | 17                           | 12    | 9          | 9                            | w.                   | Wm. J. Lauderdale.          |
| Little Falls.....                           | Passaic.....    | 180             | 21                      | 67.7                         | -0.3                      | 95      | 25    | 38     | 1     | 41                       | 3.88  | +0.36                     | 1.94                 | 0                         | 14                           | 5     | 10         | 15                           | nw.                  | Passaic Consolid. Water Co. |
| Newark.....                                 | Essex.....      | 159             | 82                      | 69.0                         | -0.3                      | 95      | 25    | 51     | 9     | 34                       | 3.50  | -0.26                     | 1.19                 | 0                         | 13                           | 6     | 12         | 12                           | sw.                  | Prof. William Wiener.       |
| New Brunswick.....                          | Middlesex.....  | 110             | 71                      | 66.6                         | -2.5                      | 90      | 25    | 41     | 1     | 28                       | 3.19  | -0.57                     | 0.58                 | 0                         | 14                           | 11    | 11         | 8                            | w.                   | N. J. Experiment Station.   |
| New Milford††.....                          | Bergen.....     | 9               | 4                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | Hackensack Water Co. |                             |
| Paterson.....                               | Passaic.....    | 80              | 53                      | 68.9                         | -0.9                      | 93      | 25    | 46     | 1     | 35                       | 3.61  | -0.51                     | 1.30                 | 0                         | 14                           | 8     | 6          | 16                           | se.                  | Marion T. Probert.          |
| Plainfield.....                             | Union.....      | 120             | 36                      | 66.0                         | -3.8                      | 91      | 25    | 38     | 1     | 35                       | 4.43  | +0.74                     | 1.34                 | 0                         | 12                           | 9     | 15         | 6                            | sw.                  | E. D. Pearson.              |
| Somerville.....                             | Somerset.....   | 70              | 41                      | 66.4                         | -2.7                      | 87      | 24    | 39     | 1     | 31                       | 3.67  | -0.07                     | 1.00                 | 0                         | 14                           | 20    | 0          | 10                           | e.                   | H. B. TenEyck.              |
| South Orange.....                           | Essex.....      | 200             | 54                      | 66.7                         | -1.8                      | 88      | 25    | 44     | 1     | 37                       | 3.87  | +0.32                     | 1.65                 | 0                         | 13                           | 7     | 17         | 6                            | w.                   | William H. Meeder.          |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 4                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....                | Hackensack Water Co.        |
| New York, N. Y.....                         |                 | 365             | 54                      | 66.8                         | -2.0                      | 87      | 25    | 51     | 9     | 25                       | 2.74  | -0.52                     | 1.10                 | 0                         | 10                           | 1     | 16         | 13                           | s.                   | U. S. Weather Bureau.       |
| Means and extremes.....                     |                 |                 |                         | 67.1                         | -2.0                      | 95      | 25    | 37     | 1     | 41                       | 3.77  | +0.02                     | 2.44                 | 0                         | 13                           | 10    | 11         | 9                            | sw.                  |                             |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                      |                             |
| Belle Plain.....                            | Cape May.....   | 30              | 30                      | 67.2                         | -1.5                      | 93      | 21    | 37     | 10    | 37                       | 4.47  | +1.25                     | 1.53                 | 0                         | 15                           | 10    | 11         | 9                            | sw.                  | Thomas J. Durell.           |
| Bridgeton.....                              | Cumberland..... | 30              | 43                      | 69.6 <sup>a</sup>            | -2.5                      | 94      | 25    | 48     | 10    | 30                       | 5.56  | +1.83                     | 1.10                 | 0                         | 11                           | 16    | 7          | 7                            | w.                   | Henry A. Jorden.            |
| Burlington.....                             | Burlington..... | 12              | 38                      | 68.9 <sup>b</sup>            | -0.8                      | 94      | 25    | 45     | 1     | 31                       | 6.96  | +3.08                     | 1.40                 | 0                         | 11                           | 21    | 2          | 7                            | nw.                  | D. S. B. McCoy.             |
| Clayton.....                                | Gloucester..... | 130             | 28                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....                | Stanley McCool.             |
| Hammonton.....                              | Atlantic.....   | 103             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 5.45  | +1.93                     | 1.15                 | 0                         | 10                           | 17    | 9          | 4                            | sw.                  | Charles M. Phillips.        |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 66.2 <sup>c</sup>            | -2.8                      | 91      | 25    | 40     | 1     | 31                       | 6.83  | +3.23                     | 1.25                 | 0                         | 19                           | 19    | 6          | 5                            | nw                   | E. H. Savige, Jr.           |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 67.2                         | -3.1                      | 91      | 21†   | 40     | 1     | 33                       | 7.32  | +3.55                     | 1.80                 | 0                         | 18                           | 14    | 8          | 8                            | w.                   | Wm. R. Hendrickson.         |
| Indian Mills††.....                         | Burlington..... | 76              | 35                      | 67.4                         | -2.4                      | 92      | 21†   | 42     | 1     | 32                       | 5.83  | +1.70                     | 0.79                 | 0                         | 15                           | 7     | 15         | 8                            | w.                   | James M. Armstrong.         |
| Lakewood.....                               | Ocean.....      | 54              | 20                      | 66.0                         | -1.5                      | 90      | 25    | 40     | 1     | 31                       | 6.06  | +2.35                     | 1.07                 | 0                         | 17                           | 10    | 6          | 14                           | ne.                  | R. W. Holman.               |
| Moorestown.....                             | Burlington..... | 75              | 61                      | 68.2                         | -1.8                      | 92      | 21    | 47     | 1     | 30                       | 4.86  | +1.14                     | 1.08                 | 0                         | 18                           | 5     | 19         | 6                            | w.                   | John B. Warriek.            |
| Northfield††.....                           | Atlantic.....   | 25              | 17                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.95  | +0.28                     | 1.05                 | 0                         | 14                           | ..... | .....      | .....                        | .....                | William L. Flick.           |
| Pleasantville††.....                        | Atlantic.....   | 26              | 26                      | 66.3                         | .....                     | 94      | 21    | 45     | 10    | 32                       | 3.79  | -0.14                     | 1.37                 | 0                         | 12                           | 11    | 17         | 2                            | sw.                  | N. J. Dept. Conservation.   |
| Runyon.....                                 | Middlesex.....  | 18              | .....                   | 66.9 <sup>b</sup>            | .....                     | 92      | 25    | .....  | ..... | .....                    | 3.45  | .....                     | 0.69                 | 0                         | 12                           | 9     | 17         | 4                            | w.                   | N. J. Dept. Conservation.   |
| Trenton.....                                | Mercer.....     | 190             | 52                      | 67.8                         | -1.7                      | 90      | 25    | 50     | 1     | 28                       | 5.31  | +1.82                     | 1.11                 | 0                         | 14                           | 3     | 13         | 14                           | sw.                  | U. S. Weather Bureau.       |
| Tuckerton.....                              | Ocean.....      | 23              | 31                      | 66.8                         | -1.6                      | 91      | 21†   | 48     | 6     | 33                       | 6.24  | +2.41                     | 1.41                 | 0                         | 17                           | 13    | 13         | 4                            | sw.                  | Frank R. Austin.            |
| Vineland.....                               | Cumberland..... | 109             | 55                      | 70.0 <sup>b</sup>            | -1.2                      | 93      | 21†   | 48     | 1     | 29                       | 6.67  | +3.10                     | .....                | 0                         | 15                           | ..... | .....      | .....                        | .....                | H. C. Himes.                |
| Philadelphia, Pa.....                       |                 | 117             | 54                      | 69.3                         | -2.1                      | 92      | 21    | 51     | 9     | 28                       | 4.31  | +1.01                     | 0.88                 | 0                         | 13                           | 2     | 9          | 19                           | w.                   | U. S. Weather Bureau.       |
| Means and extremes.....                     |                 |                 |                         | 67.6                         | -1.9                      | 94      | 21†   | 37     | 10    | 37                       | 5.52  | +1.97                     | 1.80                 | 0                         | 15                           | 12    | 11         | 7                            | w.                   |                             |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                      |                             |
| Asbury Park.....                            | Monmouth.....   | 22              | 35                      | 66.4 <sup>c</sup>            | -1.0                      | 92      | 25    | .....  | ..... | .....                    | 4.09  | +0.47                     | 0.95                 | 0                         | 16                           | 15    | 11         | 4                            | sw.                  | Information Bureau.         |
| Atlantic City.....                          | Atlantic.....   | 16              | 50                      | 66.3                         | -0.3                      | 89      | 21    | 53     | ..... | .....                    | 3.56  | +0.53                     | 1.17                 | 0                         | 11                           | 7     | 14         | 9                            | s.                   | U. S. Weather Bureau.       |
| Cape May City.....                          | Cape May.....   | 17              | 40                      | 67.8                         | +0.1                      | 89      | 21    | 52     | 10    | 23                       | 3.86  | +0.82                     | 1.54                 | 0                         | 15                           | 9     | 6          | 15                           | s.                   | U. S. Weather Bureau.       |
| Long Branch.....                            | Monmouth.....   | 25              | 17                      | 64.4                         | -1.8                      | 92      | 25    | 48     | 1†    | 31                       | 2.77  | -1.03                     | 0.52                 | 0                         | 14                           | 7     | 14         | 9                            | s.                   | William D. Martin, Jr.      |
| Sandy Hook.....                             | Monmouth.....   | 22              | 26                      | 66.2                         | -1.6                      | 89      | 25    | 52     | 8     | 24                       | 3.61  | -0.35                     | 0.93                 | 0                         | 15                           | 2     | 17         | 11                           | s.                   | U. S. Weather Bureau.       |
| Means and extremes.....                     |                 |                 |                         | 66.2                         | -0.9                      | 92      | 25    | 48     | 1†    | 31                       | 3.58  | +0.09                     | 1.54                 | 0                         | 14                           | 8     | 12         | 10                           | s.                   |                             |
| For the State.....                          |                 |                 |                         | 66.8                         | -1.8                      | 95      | 25    | 30     | 1     | 42                       | 4.20  | +0.48                     | 2.44                 | 0                         | 13                           | 11    | 11         | 8                            | sw.                  |                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for June, 1924

| Stations                                   | Drainage Basin  | Day of month |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      | Total |      |
|--------------------------------------------|-----------------|--------------|------|-----|-----|-----|-----|------|------|-----|-----|----|------|------|------|-----|-----|-----|-----|------|------|-----|-----|-----|------|------|------|------|-----|-----|-----|------|-------|------|
|                                            |                 | 1            | 2    | 3   | 4   | 5   | 6   | 7    | 8    | 9   | 10  | 11 | 12   | 13   | 14   | 15  | 16  | 17  | 18  | 19   | 20   | 21  | 22  | 23  | 24   | 25   | 26   | 27   | 28  | 29  | 30  | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| Belvidere.....                             | Delaware.....   |              | T.   |     | .10 |     | .21 |      | .10  |     |     |    | .33  | .18  | .11  |     |     | T.  |     |      | .32  |     |     | .05 | 1.36 |      | .23  |      | .43 |     |     | 3.42 |       |      |
| Charlotteburg.....                         | Passaic.....    |              |      |     | .04 |     | .13 |      | .20  |     |     |    | .12  | .05  |      |     |     |     |     |      | .05  |     |     | .17 | .24  |      | .18  |      | .54 |     |     | 1.72 |       |      |
| Culvers Lake.....                          | Delaware.....   |              |      |     | .05 |     | .10 |      | .20  | .03 |     |    | .10  | .05  | .23  | .02 |     | .01 |     |      |      |     |     | .05 | .22  | .27  | .28  |      | .41 |     |     | 2.02 |       |      |
| Dover.....                                 | Passaic.....    |              |      |     | .37 |     | .05 |      | .24  |     |     |    | .24  | .12  | .02  |     |     |     |     |      |      | .79 |     |     | .01  | .72  |      | .21  |     | .29 |     |      | 3.06  |      |
| Layton.....                                | Delaware.....   |              |      | .03 | .55 |     | .10 |      | .18  | .02 |     |    | .03  | .12  | .18  |     |     | T.  |     |      |      | .15 |     | .04 | .30  | .30  |      | .35  |     | .20 |     |      | 2.55  |      |
| Newton.....                                | Delaware.....   |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| Phillipsburg.....                          | do.....         | T.           | T.   |     | T.  |     | .31 |      | .20  |     |     |    | .31  | .44  | .03  |     |     |     | T.  | .04  | 1.43 | T.  |     | T.  | T.   | .73  |      | .36  |     | .47 |     |      | 4.32  |      |
| Sussex.....                                | Hudson.....     |              |      |     |     |     | .16 |      | .14  |     |     |    | .17  | .10  | .08  |     |     |     |     |      |      | .06 |     | .07 | .43  | .36  |      | .32  |     | .30 |     |      | 2.19  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| Bergen Point.....                          | Coast.....      | T.           | T.   |     | T.  | T.  | T.  | .63  | .55  |     |     |    | .19  | .06  | .23  |     | T.  |     |     |      | .06  | T.  |     |     | 1.09 |      | .29  |      | .28 | .18 |     |      | 3.56  |      |
| Boonton   .....                            | Passaic.....    |              |      |     | .10 |     |     | .11  |      | .11 |     |    | .03  | .11  | .03  | T.  | T.  |     | T.  | T.   |      | T.  | .50 |     | T.   |      | .91  | .02  | .12 | .20 | .01 |      | 2.25  |      |
| Chatham   .....                            | do.....         |              |      |     |     |     |     |      |      | .23 |     |    | .53  | .19  |      |     |     |     | T.  | T.   | T.   | T.  | .26 |     |      | 2.44 |      | .28  | .27 |     |     | 4.20 |       |      |
| Elizabeth.....                             | Coast.....      | T.           | T.   |     | T.  |     | T.  | .69  | *    | .53 |     |    | .27  | .17  | .36  |     | .01 |     |     |      | .05  | T.  |     |     |      | .75  |      | .28  | .24 | .33 |     |      | 3.68  |      |
| Flemington.....                            | Raritan.....    | T.           | .07  |     | .01 |     | .05 | .21  | .17  | .22 |     |    | .37  | .30  | .85  | .11 |     |     |     | .69  | .93  | .02 | T.  | T.  | 1.03 |      | .52  |      | .41 |     |     |      | 5.96  |      |
| Highwood.....                              | Hackensack..... |              |      |     | .06 |     | .01 | .05  | .32  | T.  |     |    | .07  | .06  | .04  |     | T.  |     | T.  | T.   |      | .82 | T.  | T.  | .77  |      | .20  | .20  | .24 |     |     |      | 2.64  |      |
| Jersey City.....                           | Coast.....      | T.           | T.   |     | .13 |     | T.  | .22  | .32  | .09 |     |    | .15  | .10  | .09  |     | T.  |     |     |      | T.   | .21 |     | .03 | 1.11 |      | .27  |      | .28 | .16 |     |      | 3.16  |      |
| Lambertville.....                          | Delaware.....   | .06          | .13  |     |     |     | .12 | .68  | .14  | .07 |     |    | .31  | .45  | .37  |     | .04 | T.  |     |      | .15  | .53 | T.  |     | .02  |      | .55  | .76  | .03 | .49 |     |      | 4.90  |      |
| Little Falls.                              | Passaic.....    |              | .01  |     | .01 | .36 | T.  | .09  |      | .26 |     |    | .02  | .10  | .06  |     |     |     |     | .21  |      | .03 | .33 |     |      | T.   | 1.94 |      | .17 | .29 | T.  |      | 3.88  |      |
| Newark**.....                              | Coast.....      |              |      |     | .02 |     | .05 |      | .53  |     |     |    | .14  | .21  | .45  |     |     |     | T.  | T.   | .05  | .22 |     |     | .16  | 1.19 |      | .23  |     | .25 |     |      | 3.50  |      |
| New Brunswick.....                         | Raritan.....    |              | .10  |     |     |     | .01 | .20  | .16  | .07 |     |    | .25  | .17  | .44  |     |     |     |     |      | .15  | T.  |     |     |      | .48  |      | .58  | .02 | .41 | .15 |      |       | 3.19 |
| New Milford.....                           | Hackensack..... |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| Paterson.....                              | Passaic.....    | .02          |      |     | .38 |     | .05 | .08  | .28  | .04 |     |    | .15  | .06  | .04  |     | T.  | T.  |     | .13  | T.   | .62 |     | T.  |      | 1.30 |      | .15  |     | .31 |     |      | 3.61  |      |
| Plainfield.....                            | Raritan.....    | T.           | .01  |     | T.  |     | .03 | 1.34 | .48  |     |     |    | .40  | .15  | .23  |     | T.  |     |     |      | T.   | .04 | .02 |     | T.   |      | .64  |      | .31 |     | .83 |      | 4.48  |      |
| Somerville.....                            | Raritan.....    |              |      |     |     |     | .08 | .43  | .05  | .11 |     |    | .27  | .16  | .57  | .07 |     |     |     | .07  | .03  | T.  |     | T.  |      | 1.00 |      | .40  | T.  | .26 | .17 |      | 3.67  |      |
| South Orange.....                          | Rahway.....     | T.           | .04  |     | T.  |     | .20 | .09  | .50  | .02 |     |    | .21  | .09  | .05  |     |     |     |     |      | .05  | .27 |     |     | T.   | 1.65 |      | .28  |     | .42 |     |      | 3.87  |      |
| Woodcliff Lake.**                          | Hackensack..... |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| New York, N. Y***                          | Coast.....      | T.           | T.   |     | .11 |     | .21 |      | .46  |     |     |    | .13  | .03  | .08  |     | T.  |     | T.  |      | T.   | .02 |     | T.  | T.   | 1.10 |      | .22  |     | .38 |     |      | 2.74  |      |
| <i>The Southern Interior.</i>              |                 |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| Belle Plain.....                           | Tuckahoe.....   | *            | .75  |     | .01 |     | T.  | .14  | .30  | .60 |     |    | .34  | 1.53 | .28  |     | .05 |     | .03 |      | .04  |     |     |     |      | T.   | .29  | .01  |     | .10 |     |      | 4.47  |      |
| Bridgeton.....                             | Coast.....      |              | .70  |     | .03 |     | .90 |      | 1.10 |     |     |    | .60  | 1.05 | T.   |     |     | T.  |     |      |      | .05 |     |     |      | .30  |      | .33  |     | .50 |     |      | 5.56  |      |
| Burlington.....                            | Delaware.....   |              | .15  |     |     |     | T.  |      | .62  |     |     |    | .76  | .40  |      | .44 |     | .60 |     | 1.05 | .33  |     |     |     |      | .51  |      | 1.40 |     | .70 |     |      | 6.96  |      |
| Clayton.....                               | Delaware.....   |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| Hammonton.....                             | Mullica.....    | .06          |      |     |     |     |     | 1.15 | .44  |     |     |    | 1.12 | .95  |      | .44 |     |     | .06 | T.   |      |     |     |     |      | .40  |      | .12  |     | .71 |     |      | 5.45  |      |
| Hightstown.....                            | Raritan.....    | .14          | .35  |     | .03 |     | .03 | *    | .41  |     |     |    | .32  | .52  | .40  |     | .15 | .12 | .03 | 1.15 | 1.25 | .03 |     | .06 |      | .85  |      | .43  | .03 | .53 |     |      | 6.83  |      |
| Imlaystown.....                            | Delaware.....   | .02          | .26  |     | .02 |     | .05 | .15  | .21  |     |     |    | .35  | .26  | .40  |     | .02 |     | .12 | .75  | 1.80 |     |     | .02 |      | 1.50 |      | .45  | .07 | .87 |     |      | 7.32  |      |
| Indian Mills.....                          | Mullica.....    | .20          | .32  |     |     |     | .11 | .66  | .72  | .16 |     |    | .79  | .64  | .36  |     | .69 |     | .04 |      | .10  |     |     |     |      | .50  |      | .18  |     | .36 | T.  |      | 5.83  |      |
| Lakewood.....                              | Metedconk.....  | T.           | .34  |     | .05 | .10 |     | .03  | .17  | .37 | .13 |    | .35  | .30  | .59  |     | .06 | T.  |     | .66  | .93  | T.  |     |     |      | 1.07 |      | .34  | T.  | .52 | .05 |      | 6.06  |      |
| Moorestown.....                            | Delaware.....   | .03          | .33  |     |     |     | .53 | .13  | .05  | .15 |     |    | 1.08 | .58  | .20  | .02 | .19 | T.  |     | .25  | .25  |     |     | .03 |      | .10  |      | .30  | .07 | .57 |     |      | 4.86  |      |
| Northfield.....                            | Coast.....      | .01          | .64  |     | .01 |     | T.  | .05  | .22  | .99 |     |    | .30  | 1.05 | .21  | .08 | .14 |     |     |      | T.   | T.  |     |     |      | .19  |      | .04  | .02 |     |     |      | 3.95  |      |
| Pleasantville                              | Coast.....      |              | .62  |     |     |     | .14 |      | .98  | .02 |     |    | .12  | .12  | 1.37 | .03 | .12 |     |     |      | T.   | T.  |     |     |      |      | .25  |      | .01 | .01 |     |      | 3.79  |      |
| Runyon.....                                | Coast.....      |              | .14  |     |     |     | .04 | .39  |      | .10 |     |    | .40  | .11  | .47  |     |     |     |     | .10  |      |     |     |     |      | .42  |      | .69  |     | .30 | .29 |      |       | 3.45 |
| Trenton***                                 | Delaware.....   | .24          |      | T.  | .04 |     | .07 |      | .05  | .10 |     |    | .37  | .60  | .40  |     | T.  | .29 | .27 | T.   | 1.11 | T.  |     | T.  | T.   | .74  |      | .42  |     | .61 |     |      | 5.81  |      |
| Tuckerton.....                             | Coast.....      | .10          | .64  |     |     |     | .08 | 1.41 | .10  | .30 |     |    | .82  | .52  | .17  |     | .24 |     | .02 |      | 1.10 |     |     |     |      | .41  |      | .10  | .12 | .06 | .05 |      | 6.24  |      |
| Vineland.....                              | Maurice.....    | *            | .85  |     |     |     | .05 | .85  | .35  | .97 |     |    | *    | 2.46 | .06  | .07 | T.  |     |     | .10  |      | .10 |     | T.  |      |      | .38  |      | .43 |     |     |      | 6.67  |      |
| Philadelphia, Pa.                          | Delaware.....   | .34          | T.   |     |     |     | .12 |      | .09  | .15 |     |    | .88  | .54  | .05  |     | .27 |     | .52 |      | .05  | T.  |     |     |      | .24  |      | .46  |     | .60 |     |      | 4.31  |      |
| <i>The Sea Coast.</i>                      |                 |              |      |     |     |     |     |      |      |     |     |    |      |      |      |     |     |     |     |      |      |     |     |     |      |      |      |      |     |     |     |      |       |      |
| Asbury Park.....                           | Coast.....      | *            | .64  |     |     |     | .05 | .03  | .59  | .09 |     |    | .19  | .15  | .04  |     |     |     | .01 | .95  | .03  |     |     | .02 |      | .65  |      | .30  |     | .35 |     |      | 4.09  |      |
| Atlantic City***                           | do.....         | .54          | .06  | T.  |     |     | .26 |      | .04  | .72 |     | T. | .30  | 1.17 | T.   |     | .19 |     | T.  |      | T.   |     |     |     | T.   | .21  |      | .01  |     |     |     |      | 3.56  |      |
| Cape May City.....                         | do.....         | .31          | 1.23 | .01 | .02 |     | T.  | T.   | .15  | .33 |     |    | .23  | .87  | .14  | .11 | .02 |     | .03 | .04  | T.   |     |     |     |      | .19  |      | .18  |     | T.  |     |      | 3.86  |      |
| Long Branch.....                           | do.....         | .20          | .05  |     |     |     | .07 |      | .37  |     |     |    | .18  | .16  | .03  |     | T.  |     | .12 | .22  | .01  | T.  |     | .02 |      | .52  |      | .44  | T.  | .38 |     |      | 2.77  |      |
| Sandy Hook***                              | do.....         | .05          | .02  | .01 | .02 |     | .55 |      | .33  |     |     |    | .20  | .27  | .08  |     | T.  |     | .03 | .03  | .37  | T.  |     | T.  |      | .93  |      | .52  |     | .20 |     |      | 3.61  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture                                |                                        | Sun-<br>shine                      |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|-----------------------------------------|----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction |                                         |                                        |                                    |
| Atlantic City.....    | 29.95        | 30.31   | 11   | 29.67  | 25   | 14              | 53             | w.        | 25                                      | 81                                     | 58                                 |
| Cape May City.....    | 30.00        | 30.32   | 11   | 29.78  | 29   | 7               | 35             | n.w.      | 25                                      | 85                                     | .....                              |
| Long Branch.....      |              |         |      |        |      |                 | 40             | sw.       | 25                                      |                                        | .....                              |
| Newark.....           | 29.95        | 30.33   | 11   | 29.51  | 25   | 12              | 74             | sw.       | 25                                      | 74                                     | 52                                 |
| New York, N. Y.....   | 29.96        | 30.32   | 11   | 29.63  | 25   | 8               | 31             | ne.       | 25                                      | 76                                     | 63                                 |
| Philadelphia, Pa..... | 29.94        | 30.34   | 11   | 29.55  | 25   | 10              | 56             | w.        | 25                                      | 78                                     | 62                                 |
| Sandy Hook.....       | 29.95        | 30.31   | 11   | 29.55  | 25   | 9               | 62             | n.w.      | 25                                      | 79                                     | 54                                 |
| Trenton.....          |              |         |      |        |      |                 |                |           |                                         |                                        |                                    |

\* 7 a m † 9 p m



## Daily Temperatures for June, 1924

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30                | 31    | Mean  |      |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------|-------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |       |       |      |
| Belvidere.....                       | Maximum | 58 | 59 | 72 | 59 | 77 | 69 | 74 | 68 | 68 | 68 | 78 | 80 | 82 | 76 | 85 | 85 | 80 | 85 | 80 | 82 | 82 | 82 | 80 | 80 | 73 | 73 | 80 | 78 | 75.4*             |       |       |      |
|                                      | Minimum | 38 | 54 | 57 | 48 | 46 | 53 | 51 | 50 | 45 | 50 | 51 | 55 | 52 | 60 | 54 | 51 | 62 | 65 | 62 | 60 | 56 | 53 | 53 | 53 | 56 | 59 | 63 | 53 | 55.0              |       |       |      |
| Charlotteburg.....                   | Maximum | 69 | 72 | 72 | 71 | 72 | 72 | 75 | 71 | 72 | 64 | 52 | 50 | 69 | 81 | 81 | 78 | 85 | 84 | 70 | 85 | 87 | 82 | 85 | 86 | 79 | 76 | 73 | 83 | 83                | 75.8* |       |      |
|                                      | Minimum | 30 | 48 | 48 | 52 | 46 | 38 | 48 | 50 | 44 | 48 | 50 | 47 | 54 | 52 | 48 | 55 | 44 | 60 | 58 | 57 | 57 | 45 | 50 | 63 | 62 | 60 | 55 | 56 | 68                | 55    | 51.5  |      |
| Dover.....                           | Maximum | 70 | 72 | 71 | 72 | 75 | 69 | 78 | 71 | 72 | 73 | 65 | 60 | 59 | 74 | 84 | 84 | 78 | 85 | 82 | 72 | 88 | 88 | 81 | 85 | 87 | 81 | 73 | 78 | 85                | 80    | 75.4  |      |
|                                      | Minimum | 36 | 52 | 55 | 56 | 48 | 45 | 54 | 49 | 50 | 43 | 51 | 51 | 55 | 55 | 47 | 51 | 64 | 62 | 61 | 50 | 53 | 64 | 60 | 52 | 53 | 58 | 63 | 55 | 53.7 <sup>b</sup> |       |       |      |
| Layton.....                          | Maximum | 70 | 73 | 71 | 71 | 70 | 67 | 75 | 64 | 75 | 68 | 63 | 52 | 52 | 82 | 81 | 79 | 84 | 77 | 83 | 85 | 87 | 81 | 86 | 85 | 79 | 65 | 75 | 85 | 82                | 75.9* |       |      |
|                                      | Minimum | 32 | 48 | 47 | 55 | 45 | 41 | 48 | 46 | 52 | 42 | 45 | 52 | 55 | 52 | 51 | 55 | 45 | 57 | 63 | 60 | 52 | 53 | 49 | 61 | 58 | 50 | 55 | 64 | 57                | 52.3  |       |      |
| Newton.....                          | Maximum | 71 | 71 | 74 | 74 | 75 | 69 | 79 | 64 | 73 | 74 | 66 | 61 | 53 | 80 | 83 | 79 | 84 | 85 | 73 | 88 | 88 | 82 | 88 | 91 | 81 | 67 | 79 | 88 | 80                | 77.1  |       |      |
|                                      | Minimum | 40 | 54 | 53 | 57 | 49 | 49 | 55 | 52 | 53 | 46 | 51 | 53 | 57 | 51 | 53 | 56 | 54 | 52 | 64 | 63 | 58 | 59 | 64 | 56 | 57 | 60 | 64 | 54 | 55.8              |       |       |      |
| Phillipsburg.....                    | Maximum | 72 | 72 | 74 | 71 | 77 | 72 | 78 | 68 | 75 | 78 | 71 | 64 | 63 | 75 | 84 | 83 | 85 | 86 | 88 | 75 | 86 | 88 | 82 | 86 | 86 | 82 | 73 | 79 | 85                | 83    | 77.7* |      |
|                                      | Minimum | 34 | 50 | 50 | 54 | 45 | 42 | 51 | 42 | 48 | 42 | 59 | 51 | 55 | 55 | 51 | 56 | 61 | 60 | 64 | 50 | 57 | 50 | 61 | 50 | 51 | 50 | 59 | 64 | 57                | 53.1* |       |      |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |       |       |      |
| Bergen Point.....                    | Maximum | 73 | 74 | 77 | 76 | 75 | 69 | 78 | 71 | 72 | 57 | 62 | 55 | 75 | 84 | 84 | 75 | 84 | 84 | 77 | 85 | 87 | 89 | 85 | 85 | 91 | 79 | 69 | 79 | 87                | 82    | 75.7* |      |
|                                      | Minimum | 55 | 53 | 55 | 57 | 52 | 54 | 58 | 51 | 51 | 53 | 52 | 50 | 50 | 52 | 57 | 54 | 52 | 60 | 54 | 62 | 62 | 75 | 65 | 62 | 75 | 64 | 62 | 61 | 62                | 68    | 62    | 58.8 |
| Boontonff.....                       | Maximum | 71 | 73 | 71 | 74 | 75 | 70 | 79 | 76 | 72 | 66 | 63 | 64 | 75 | 83 | 84 | 79 | 88 | 85 | 69 | 82 | 85 | 88 | 82 | 85 | 89 | 80 | 58 | 75 | 84                | 80    | 77.0* |      |
|                                      | Minimum | 37 | 51 | 51 | 53 | 46 | 43 | 50 | 49 | 49 | 41 | 46 | 48 | 56 | 54 | 46 | 53 | 50 | 51 | 59 | 60 | 58 | 59 | 51 | 50 | 65 | 54 | 52 | 57 | 54                | 56    | 52.5  |      |
| Elizabeth.....                       | Maximum | 74 | 76 | 77 | 79 | 78 | 71 | 80 | 74 | 72 | 70 | 63 | 67 | 78 | 86 | 84 | 76 | 87 | 83 | 68 | 90 | 90 | 87 | 89 | 93 | 84 | 77 | 81 | 89 | 85                | 79.1  |       |      |
|                                      | Minimum | 41 | 55 | 54 | 56 | 52 | 50 | 56 | 52 | 54 | 50 | 51 | 52 | 57 | 54 | 50 | 56 | 55 | 54 | 63 | 50 | 54 | 66 | 53 | 62 | 61 | 60 | 74 | 64 | 56                | 57    | 57.4  |      |
| Flemington.....                      | Maximum | 68 | 75 | 73 | 78 | 78 | 72 | 79 | 76 | 73 | 75 | 58 | 63 | 62 | 75 | 84 | 81 | 86 | 86 | 81 | 90 | 90 | 82 | 87 | 90 | 81 | 75 | 79 | 88 | 83                | 78.8  |       |      |
|                                      | Minimum | 40 | 51 | 52 | 57 | 50 | 48 | 54 | 52 | 50 | 46 | 50 | 52 | 55 | 55 | 51 | 50 | 56 | 55 | 54 | 63 | 50 | 54 | 60 | 55 | 62 | 55 | 59 | 54 | 57                | 55.8  |       |      |
| Highwood.....                        | Maximum | 71 | 73 | 75 | 69 | 74 | 58 | 79 | 67 | 73 | 70 | 57 | 61 | 63 | 71 | 80 | 79 | 78 | 83 | 78 | 83 | 81 | 88 | 82 | 88 | 90 | 78 | 71 | 80 | 87                | 82    | 75.0  |      |
|                                      | Minimum | 38 | 53 | 55 | 56 | 47 | 47 | 54 | 50 | 50 | 46 | 47 | 52 | 57 | 56 | 50 | 56 | 55 | 52 | 55 | 63 | 51 | 60 | 54 | 65 | 52 | 53 | 56 | 59 | 65                | 59    | 55.1  |      |
| Jersey City.....                     | Maximum | 71 | 74 | 73 | 75 | 75 | 70 | 77 | 55 | 71 | 69 | 62 | 60 | 66 | 75 | 84 | 84 | 77 | 85 | 81 | 88 | 89 | 90 | 84 | 86 | 92 | 80 | 70 | 77 | 87                | 80    | 76.6  |      |
|                                      | Minimum | 51 | 54 | 57 | 57 | 54 | 57 | 58 | 51 | 51 | 53 | 52 | 54 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 62 | 63 | 63 | 62 | 61 | 67 | 55 | 69 | 63 | 60                | 61    | 65    | 58.9 |
| Lambertville.....                    | Maximum | 57 | 72 | 73 | 73 | 75 | 71 | 75 | 65 | 70 | 72 | 50 | 60 | 62 | 75 | 80 | 82 | 82 | 82 | 84 | 71 | 86 | 86 | 83 | 85 | 89 | 81 | 65 | 78 | 85                | 78    | 75.5  |      |
|                                      | Minimum | 45 | 51 | 53 | 56 | 50 | 51 | 55 | 51 | 50 | 47 | 50 | 52 | 56 | 55 | 53 | 62 | 60 | 56 | 55 | 53 | 62 | 60 | 64 | 62 | 68 | 62 | 57 | 57 | 65                | 59    | 55.7  |      |
| Little Fallsff.....                  | Maximum | 79 | 80 | 79 | 80 | 77 | 78 | 80 | 72 | 80 | 78 | 65 | 63 | 68 | 81 | 86 | 85 | 84 | 92 | 85 | 68 | 93 | 90 | 89 | 88 | 95 | 85 | 72 | 81 | 88                | 82    | 80.8  |      |
|                                      | Minimum | 38 | 44 | 55 | 55 | 47 | 42 | 53 | 50 | 50 | 45 | 48 | 51 | 55 | 55 | 48 | 51 | 55 | 55 | 49 | 56 | 53 | 63 | 54 | 52 | 60 | 51 | 55 | 66 | 57                | 57    | 59.4  |      |
| Newark.....                          | Maximum | 73 | 77 | 75 | 75 | 79 | 75 | 80 | 57 | 77 | 69 | 60 | 51 | 53 | 77 | 88 | 87 | 83 | 87 | 86 | 75 | 90 | 91 | 89 | 90 | 95 | 81 | 66 | 80 | 92                | 83    | 79.0  |      |
|                                      | Minimum | 52 | 54 | 55 | 58 | 52 | 55 | 57 | 51 | 54 | 53 | 54 | 57 | 56 | 55 | 61 | 64 | 67 | 64 | 61 | 58 | 55 | 68 | 51 | 58 | 50 | 59 | 55 | 51 | 51                | 51    | 54.1* |      |
| New Brunswick.....                   | Maximum | 68 | 72 | 73 | 75 | 75 | 72 | 75 | 75 | 69 | 65 | 51 | 64 | 75 | 81 | 81 | 76 | 84 | 81 | 77 | 88 | 86 | 84 | 86 | 90 | 79 | 57 | 78 | 87 | 85                | 78    | 75.6  |      |
|                                      | Minimum | 41 | 52 | 53 | 56 | 49 | 51 | 56 | 53 | 51 | 46 | 50 | 52 | 57 | 55 | 53 | 61 | 50 | 55 | 53 | 52 | 61 | 53 | 52 | 66 | 66 | 55 | 58 | 58 | 65                | 59    | 55.5  |      |
| Paterson.....                        | Maximum | 76 | 77 | 77 | 75 | 75 | 72 | 75 | 75 | 72 | 68 | 52 | 64 | 76 | 87 | 85 | 82 | 86 | 84 | 80 | 88 | 90 | 88 | 90 | 88 | 93 | 83 | 75 | 80 | 88                | 85    | 79.7  |      |
|                                      | Minimum | 46 | 53 | 58 | 58 | 52 | 51 | 55 | 54 | 52 | 50 | 51 | 54 | 58 | 57 | 52 | 63 | 59 | 55 | 67 | 64 | 61 | 53 | 52 | 59 | 65 | 59 | 60 | 56 | 59                | 58.1  |       |      |
| Plainfield.....                      | Maximum | 72 | 75 | 74 | 77 | 76 | 71 | 78 | 63 | 72 | 59 | 63 | 60 | 67 | 75 | 84 | 85 | 78 | 85 | 81 | 66 | 90 | 90 | 84 | 87 | 91 | 81 | 66 | 78 | 87                | 81    | 75.9  |      |
|                                      | Minimum | 38 | 52 | 54 | 55 | 50 | 45 | 50 | 49 | 45 | 50 | 50 | 55 | 58 | 49 | 59 | 58 | 63 | 64 | 63 | 61 | 64 | 55 | 56 | 64 | 56 | 57 | 56 | 62 | 59                | 55.2  |       |      |
| Somerville.....                      | Maximum | 70 | 75 | 75 | 78 | 78 | 73 | 80 | 77 | 74 | 73 | 66 | 62 | 70 | 73 | 82 | 82 | 85 | 82 | 72 | 85 | 84 | 84 | 87 | 85 | 79 | 78 | 75 | 83 | 84                | 77.5  |       |      |
|                                      | Minimum | 39 | 52 | 51 | 56 | 48 | 46 | 56 | 52 | 52 | 43 | 51 | 51 | 56 | 55 | 51 | 57 | 59 | 54 | 53 | 54 | 61 | 60 | 57 | 66 | 64 | 53 | 54 | 58 | 56                | 56.4  |       |      |
| South Orange.....                    | Maximum | 71 | 73 | 75 | 74 | 75 | 70 | 78 | 55 | 71 | 69 | 54 | 52 | 64 | 74 | 82 | 83 | 76 | 84 | 81 | 67 | 86 | 87 | 82 | 85 | 88 | 79 | 55 | 78 | 87                | 79    | 75.8  |      |
|                                      | Minimum | 45 | 55 | 55 | 58 | 53 | 51 | 56 | 52 | 51 | 49 | 51 | 54 | 57 | 57 | 53 | 63 | 62 | 55 | 52 | 51 | 63 | 60 | 68 | 62 | 59 | 59 | 58 | 66 | 50                | 57.6  |       |      |
| New York, N. Y.....                  | Maximum | 68 | 70 | 72 | 71 | 74 | 58 | 75 | 65 | 70 | 55 | 59 | 60 | 52 | 73 | 83 | 80 | 75 | 81 | 80 | 68 | 84 | 86 | 82 | 83 | 87 | 78 | 70 | 58 | 64                | 77    | 74.3  |      |
|                                      | Minimum | 52 | 54 | 57 | 57 | 54 | 58 | 59 | 51 | 51 | 54 | 52 | 54 | 57 | 56 | 58 | 64 | 63 | 63 | 52 | 62 | 61 | 68 | 55 | 71 | 62 | 50 | 61 | 50 | 55                | 62    | 59.2  |      |
| The Southern Interior.               |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |       |       |      |
| Belle Plain.....                     | Maximum | 73 | 71 | 71 | 77 | 76 | 71 | 82 | 79 | 66 | 66 | 65 | 70 | 78 | 84 | 88 | 87 | 87 | 92 | 93 | 87 | 83 | 90 | 90 | 81 | 74 | 79 | 90 | 83 | 79.5              |       |       |      |
|                                      | Minimum | 42 | 50 | 50 | 57 | 43 | 42 | 59 | 51 | 53 | 37 | 41 | 57 | 50 | 55 | 48 | 50 | 58 | 62 | 65 | 58 | 66 | 66 | 63 | 56 | 64 | 53 | 50 | 57 | 64                | 63    | 55.0  |      |
| Bridgeton.....                       | Maximum | 70 | 75 | 77 | 77 | 76 | 73 | 77 | 70 | 73 | 69 | 65 | 65 | 75 | 84 | 85 | 86 | 87 | 87 | 93 | 92 | 85 | 84 | 92 | 94 | 8  |    |    |    |                   |       |       |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXIX.

JULY, 1924.

No. 7

### GENERAL SUMMARY.

The weather during July was unusually pleasant and fine for all out door interests, except for crop growth. There were brief warm periods from the 7th to the 12th, on the 23d, 24th, and 30th, but at other times, temperatures were normal or more generally below. In no case was there appreciable rain on more than two consecutive days, and in many cases rain fell at night, leaving daylight hours uninterrupted for profitable occupation.

There was a great shortage of rain in all portions of the State. In many portions of central districts generous total rainfall was recorded, but the fall occurred mostly on the 8th, when amounts up to and above 4 inches were measured in the 24-hour period. The runoff from this storm was so rapid that no very lasting good to vegetation occurred, and did not prevent a latter deterioration in plant growth. On other days amounts were so small, that in spite of the fairly large monthly total, a virtual drought prevailed at the close of the month.

A low barometric area passed the State on the 17th, and a sharp squall occurred which was seriously destructive in scattered localities. In some sections the damage occurred from wind and in others from hail. In a part of Cumberland County the hail cut some fields to shreds, with a resulting total loss.

The weather afforded one of the best seasons for harvest of hay and grain in a long period of years, but otherwise it was an unfavorable month for agriculture.

No storm warnings were displayed along the coast.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 37 stations, was 71.6°, which was 1.6° below the normal. The highest temperature was 98° at Little Falls on the 30th, and the lowest, 41° at Belle Plain on the 19th and Charlotteburg on the 20th. The highest monthly mean temperature was 74.8° at Bridgeton and Paterson, and the lowest, 68.0° at Charlotteburg. The greatest daily range of temperature was 44° at Layton on the 28th and Belle Plain on the 29th. The temperature departure for the year 1924 to date, by sections, is: The Highlands, -1.3°; Red Sandstone Plain, -1.2°; Southern Interior, -1.2°; Sea Coast, -0.4°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 42 stations was 2.59 inches, which was 2.05 inches below the normal. The greatest monthly rainfall was 5.08 inches at Somerville, and the least, 0.84 inch at Belle Plain. The greatest amount of rain in any 24 consecutive hours was 4.09 inches at Chatham on the 9th. The mean of the number of days on which 0.01 inch or more of rain fell was 6, or 4 less than the normal. The precipitation accumulated departure from the normal for the year 1924 to date, by sections, is: The Highlands, -1.34 inches; Red Sandstone Plain, +2.98 inches; Southern Interior, +5.81 inches; Sea Coast, -1.17 inches.

### WIND.

The prevailing wind direction was from the south, with an average velocity of 10 miles per hour, which was about normal. The highest velocity, sustained for 5 consecutive minutes, was 56 miles per hour from the northwest on the 17th at Sandy Hook.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 19, which was 7 more than the normal; partly cloudy, 8, or 4 less than the normal; cloudy, 4, or 3 less than the normal. The per cent of possible sunshine was 73, which was 10 per cent above the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.7 feet, and the highest stage was 3.8 feet on the 9th. At Trenton the mean stage was 1.0 foot, which was 0.3 foot below the normal. The highest stage, 2.2 feet, occurred on the 11th.

The mean atmospheric pressure, reduced to sea level, was 30.01 inches, which was 0.03 inch above the normal. The highest reading was 30.29 inches on the 6th at Cape May City, and the lowest, 29.58 inches on the 17th at Sandy Hook.

Thunderstorms occurred in some portions of the State on the 7th, 8th, 10th, 13th, 14th, 17th, 22d, 23d, 25th, 30th, and 31st. Solar halos were observed on the 4th, 17th, 21st, and 28th. Dense fog occurred on the 6th, 7th, 16th, and 21st.

Considerable damage was done by hail on the 17th in the vicinity of Bridgeton and Millville, and little damage occurred at Forked River and Hammonton.

### COMPARATIVE DATA FOR JULY

| Year | Temperature |         |        | Precipitation |          |       | No of days |               |        |                      |
|------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|----------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more dec |
| 1885 | 75.2        | 100     | 44     | 3.50          | 7.28     | 1.29  |            |               |        |                      |
| 1886 | 73.0        | 98      | 48     | 4.91          | 7.95     | 2.98  |            |               |        |                      |
| 1887 | 77.1        | 102     | 54     | 7.67          | 15.29    | 1.95  |            |               |        | 11                   |
| 1888 | 73.4        | 95      | 45     | 3.50          | 7.03     | 1.25  |            |               |        | 8                    |
| 1889 | 72.5        | 101     | 39     | 5.62          | 7.55     | 3.60  | 12         | 11            | 8      | 9                    |
| 1890 | 72.5        | 101     | 39     | 5.62          | 7.55     | 3.60  | 12         | 11            | 8      | 9                    |
| 1891 | 70.1        | 95      | 43     | 5.30          | 9.41     | 3.03  | 10         | 11            | 10     | 12                   |
| 1892 | 74.3        | 105     | 44     | 4.03          | 7.96     | 2.38  | 12         | 14            | 5      | 8                    |
| 1893 | 75.7        | 102     | 40     | 2.72          | 4.63     | 1.26  | 14         | 13            | 4      | 8                    |
| 1894 | 75.7        | 106     | 44     | 1.66          | 5.00     | 0.16  | 14         | 12            | 5      | 6                    |
| 1895 | 70.9        | 99      | 41     | 4.26          | 7.73     | 1.53  | 12         | 12            | 7      | 10                   |
| 1896 | 75.0        | 98      | 47     | 5.50          | 13.29    | 2.45  | 13         | 10            | 8      | 13                   |
| 1897 | 75.3        | 107     | 50     | 11.42         | 20.80    | 6.11  | 10         | 11            | 10     | 15                   |
| 1898 | 75.3        | 107     | 38     | 4.96          | 11.72    | 2.23  | 11         | 13            | 7      | 10                   |
| 1899 | 74.7        | 98      | 38     | 5.75          | 9.02     | 3.34  | 13         | 11            | 7      | 11                   |
| 1900 | 75.9        | 104     | 42     | 4.74          | 7.21     | 1.11  | 15         | 12            | 4      | 11                   |
| 1901 | 77.3        | 107     | 45     | 5.87          | 10.92    | 1.89  | 9          | 13            | 9      | 14                   |
| 1902 | 73.0        | 100     | 43     | 4.78          | 9.92     | 1.83  | 10         | 12            | 9      | 13                   |
| 1903 | 73.3        | 100     | 38     | 5.51          | 10.14    | 3.08  | 16         | 10            | 5      | 12                   |
| 1904 | 72.3        | 98      | 42     | 4.87          | 8.06     | 2.41  | 13         | 10            | 8      | 13                   |
| 1905 | 74.4        | 102     | 42     | 4.06          | 8.19     | 1.67  | 12         | 13            | 6      | 12                   |
| 1906 | 72.8        | 94      | 46     | 5.58          | 13.25    | 3.44  | 11         | 14            | 6      | 12                   |
| 1907 | 73.6        | 96      | 40     | 2.62          | 6.42     | 0.95  | 8          | 12            | 11     | 8                    |
| 1908 | 75.6        | 106     | 42     | 4.70          | 8.12     | 1.97  | 12         | 13            | 6      | 9                    |
| 1909 | 71.6        | 99      | 36     | 2.12          | 4.03     | 1.03  | 14         | 14            | 3      | 5                    |
| 1910 | 75.3        | 99      | 42     | 1.36          | 5.33     | 0.22  | 12         | 12            | 7      | 5                    |
| 1911 | 76.0        | 104     | 42     | 3.64          | 6.46     | 2.06  | 12         | 12            | 7      | 8                    |
| 1912 | 73.7        | 100     | 36     | 3.86          | 9.91     | 1.01  | 14         | 10            | 7      | 9                    |
| 1913 | 74.4        | 100     | 41     | 2.52          | 4.72     | 1.50  | 20         | 9             | 2      | 8                    |
| 1914 | 71.5        | 97      | 40     | 6.05          | 8.57     | 1.94  | 9          | 11            | 11     | 15                   |
| 1915 | 72.8        | 98      | 44     | 5.31          | 11.06    | 2.23  | 10         | 13            | 8      | 14                   |
| 1916 | 74.4        | 97      | 45     | 5.40          | 9.01     | 3.15  | 11         | 9             | 11     | 12                   |
| 1917 | 74.2        | 104     | 46     | 4.83          | 7.93     | 2.38  | 10         | 11            | 10     | 12                   |
| 1918 | 72.2        | 104     | 39     | 3.93          | 13.60    | 1.20  | 17         | 9             | 5      | 8                    |
| 1919 | 73.5        | 103     | 43     | 8.39          | 14.14    | 4.45  | 14         | 7             | 10     | 14                   |
| 1920 | 71.7        | 96      | 42     | 5.76          | 16.25    | 1.20  | 17         | 10            | 4      | 11                   |
| 1921 | 76.5        | 99      | 43     | 3.62          | 7.36     | 1.66  | 14         | 9             | 8      | 10                   |
| 1922 | 73.0        | 98      | 44     | 5.79          | 9.26     | 2.29  | 13         | 9             | 9      | 13                   |
| 1923 | 71.9        | 102     | 40     | 3.88          | 6.28     | 0.93  | 15         | 8             | 8      | 11                   |
| 1924 | 71.6        | 98      | 41     | 2.59          | 5.08     | 0.84  | 19         | 8             | 4      | 6                    |



## Climatological Data for July, 1924

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |                 |       |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Prevailing direction of wind | Observers                                                                                                                |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|-----------------|-------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest          | Date  | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy | Cloudy |                              |                                                                                                                          |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 33                      | 70.8 <sup>b</sup>            | -2.4                      | 91      | 30    | 49              | 19    | 33                   | 2.52                     | -2.46                     | 0.80                 | 0                         | 7                            | 18    | 12         | 1      | .....                        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 32                      | 68.0                         | -2.0                      | 92      | 30    | 41              | 20    | 43                   | 4.60                     | -0.23                     | 4.00                 | 0                         | 4                            | 18    | 8          | 5      | w.                           |                                                                                                                          |
| Culvers Lake.....                           | Sussex.....     | 848             | 23                      | 70.0                         | .....                     | .....   | ..... | 48              | 15    | .....                | 2.20                     | -2.37                     | 0.75                 | 0                         | 10                           | 22    | 8          | 1      | se.                          |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 40                      | 70.0                         | -1.4                      | 93      | 30    | 49              | 15†   | 38                   | 2.95                     | -2.32                     | 2.00                 | 0                         | 5                            | 9     | 19         | 3      | .....                        |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 23                      | 69.8                         | -1.1                      | 95      | 30    | 43              | 15†   | 44                   | 1.50                     | -2.76                     | 0.65                 | 0                         | 7                            | 22    | 6          | 3      | w.                           | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 41                      | 71.0                         | -1.5                      | 93      | 30    | 49              | 19†   | 37                   | 3.43                     | -1.53                     | 1.92                 | 0                         | 7                            | 17    | 14         | 0      | sw.                          |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 41                      | 72.4 <sup>b</sup>            | -1.7                      | 94      | 30    | 52              | 15†   | 34                   | 2.07                     | -2.78                     | 0.97                 | 0                         | 8                            | 22    | 6          | 3      | .....                        |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 30                      | 70.2 <sup>b</sup>            | -1.9                      | 94      | 29    | 45              | 20    | 40                   | 2.60                     | -1.80                     | 1.58                 | 0                         | 3                            | 14    | 6          | 11     | n.                           |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 70.3                         | -1.7                      | 95      | 30    | 41              | 20    | 44                   | 2.73                     | -2.03                     | 4.00                 | 0                         | 6                            | 18    | 10         | 3      | w.                           |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Bergen Point.....                           | Hudson.....     | 37              | 27                      | 74.0 <sup>a</sup>            | 0.0                       | 95      | 30    | 57†             | 19†   | 26†                  | 1.19                     | -3.42                     | 0.40                 | 0                         | 7                            | 7     | 23         | 1      | sw.                          | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                                | Morris.....     | 400             | §34                     | 69.8                         | -2.7                      | 91      | 30    | 48              | 28    | 40                   | 3.53                     | -1.37                     | 3.03                 | 0                         | 4                            | 24    | 0          | 7      | sw.                          |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 20                      | 71.4 <sup>a</sup>            | .....                     | .....   | ..... | .....           | ..... | .....                | 4.47                     | +0.03                     | 4.09                 | 0                         | 4                            | 25    | 6          | 0      | .....                        |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 45                      | 74.4 <sup>a</sup>            | -0.9                      | 96      | 30    | 53              | 15†   | 34                   | 3.64                     | -1.52                     | 1.30                 | 0                         | 6                            | 18    | 9          | 4      | se.                          |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | §38                     | 72.8                         | -1.8                      | 95      | 30    | 52              | 15†   | 38                   | 2.37                     | -2.82                     | 0.51                 | 0                         | 8                            | 21    | 7          | 3      | w.                           | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood.....                               | Bergen.....     | 90              | 36                      | 71.0                         | -1.3                      | 95      | 30    | 48              | 20    | 37                   | 2.73                     | -2.22                     | 1.76                 | 0                         | 4                            | 15    | 10         | 6      | sw.                          |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 26                      | 73.8                         | -2.3                      | 95      | 30    | 57              | 18    | 27                   | 1.30                     | -3.14                     | 0.40                 | 0                         | 6                            | 16    | 8          | 7      | w.                           |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 37                      | 72.2                         | -2.3                      | 92      | 30    | 53              | 19    | 31                   | 3.40                     | -1.42                     | 2.10                 | 0                         | 9                            | 21    | 8          | 2      | s.                           |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | §21                     | 72.8                         | -1.0                      | 98      | 30    | 51              | 15†   | 37                   | 4.51                     | +0.12                     | 4.00                 | 0                         | 5                            | 13    | 14         | 4      | w.                           | Passaic Consol. Water Co.<br>N. J. Experiment Station.<br>Hackensack Water Co.                                           |
| New Brunswick.....                          | Middlesex.....  | 110             | 71                      | 72.0                         | -2.0                      | 94      | 30    | 53              | 15†   | 33                   | 2.75                     | -2.29                     | 0.78                 | 0                         | 6                            | 21    | 8          | 2      | w.                           |                                                                                                                          |
| New Milford.....                            | Bergen.....     | 9               | 4                       | 74.8                         | .....                     | .....   | ..... | .....           | ..... | .....                | .....                    | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 53                      | 74.8                         | +0.4                      | 97      | 30    | 54              | 19    | 32                   | 3.90                     | -1.12                     | 2.01                 | 0                         | 5                            | 14    | 4          | 13     | nw.                          |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120             | 36                      | 71.0                         | -3.0                      | 95      | 30    | 50              | 20†   | 34                   | 4.68                     | -1.15                     | 3.88                 | 0                         | 6                            | 14    | 13         | 4      | nw.                          | Marion T. Probert.<br>E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                     |
| Somerville.....                             | Somerset.....   | 70              | 41                      | 70.1                         | -4.0                      | 89      | 30†   | 48              | 19†   | 32                   | 5.08                     | -0.03                     | 2.40                 | 0                         | 6                            | 26    | 0          | 5      | sw.                          |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 54                      | 71.8                         | -1.4                      | 90      | 30†   | 55              | 15†   | 27                   | 3.69                     | -1.32                     | 2.94                 | 0                         | 7                            | 19    | 9          | 3      | w.                           |                                                                                                                          |
| Woodcliff Lake.....                         | Bergen.....     | 100             | 4                       | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | .....                    | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....  | .....                        |                                                                                                                          |
| New York, N. Y.....                         |                 | 365             | 54                      | 72.6                         | -1.2                      | 91      | 30    | 58              | 18    | 23                   | 1.30                     | -3.24                     | 0.36                 | 0                         | 8                            | 10    | 11         | 10     | s.                           | U. S. Weather Bureau.                                                                                                    |
| Means and extremes...                       |                 |                 |                         | 72.3                         | -1.7                      | 98      | 30    | 48              | 19†   | 40                   | 3.37                     | -1.55                     | 4.09                 | 0                         | 6                            | 18    | 9          | 4      | w.                           |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belle Plain.....                            | Cape May.....   | 30              | 30                      | 70.8                         | -3.0                      | 95      | 30    | 41              | 19    | 44                   | 0.84                     | -3.27                     | 0.42                 | 0                         | 9                            | 14    | 6          | 11     | nw.                          | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Stanley McCool.                                              |
| Bridgeton.....                              | Cumberland..... | 30              | 43                      | 74.8                         | -1.9                      | 97      | 30    | 54              | 18†   | 31                   | 2.11                     | -2.38                     | 1.25                 | 0                         | 3                            | 26    | 1          | 4      | w.                           |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | §38                     | 74.5 <sup>b</sup>            | -0.5                      | 96      | 30    | 53              | 19    | 34                   | 3.09                     | -1.65                     | 0.82                 | 0                         | 6                            | 25    | 3          | 3      | w.                           |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 28                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | .....                    | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Hammonton.....                              | Atlantic.....   | 103             | 25                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 3.39                     | -1.32                     | 1.95                 | 0                         | 4                            | 25    | 6          | 0      | sw.                          | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Frank M. Lawrence.<br>James M. Armstrong.                                   |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 71.0 <sup>a</sup>            | -3.4                      | 95      | 30    | 49              | 19    | 36                   | 1.71                     | -3.28                     | 0.53                 | 0                         | 9                            | 24    | 6          | 1      | sw.                          |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 73.9 <sup>c</sup>            | -0.8                      | 96      | 24†   | 49              | 19    | 40                   | 1.99                     | -2.77                     | 0.57                 | 0                         | 9                            | 22    | 9          | 0      | nw.                          |                                                                                                                          |
| Indian Mills.....                           | Burlington..... | 76              | 35                      | 72.0                         | -2.7                      | 96      | 30    | 48              | 19    | 43                   | 2.20                     | -2.46                     | 1.30                 | 0                         | 6                            | 16    | 8          | 7      | w.                           |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54              | 20                      | 71.6                         | -1.2                      | 94      | 30    | 50              | 19    | 30                   | 1.99                     | -2.86                     | 0.65                 | 0                         | 7                            | 19    | 7          | 5      | sw.                          | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                             | Burlington..... | 75              | 61                      | 74.0                         | -0.7                      | 94      | 30    | 52              | 19    | 34                   | 3.69                     | -0.99                     | 1.62                 | 0                         | 7                            | 19    | 9          | 3      | w.                           |                                                                                                                          |
| Northfield.....                             | Atlantic.....   | 25              | 17                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 1.25                     | -2.35                     | 0.43                 | 0                         | 6                            | 14    | 17         | 0      | s.                           |                                                                                                                          |
| Pleasantville.....                          | Atlantic.....   | 26              | 26                      | 70.8                         | .....                     | 93      | 30    | 49              | 18†   | 33                   | 1.06                     | -2.92                     | 0.40                 | 0                         | 6                            | 14    | 17         | 0      | s.                           |                                                                                                                          |
| Runyon.....                                 | Middlesex.....  | 18              | .....                   | 70.4 <sup>b</sup>            | .....                     | 97      | 30    | 43              | 20†   | 43                   | 1.13                     | .....                     | 0.35                 | 0                         | 5                            | 20    | 9          | 2      | w.                           | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                                | Mercer.....     | 190             | 52                      | 73.2                         | -1.3                      | 94      | 30    | 55              | 19    | 28                   | 4.21                     | -0.56                     | 2.40                 | 0                         | 5                            | 12    | 9          | 10     | sw.                          |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 31                      | 73.2                         | -0.9                      | 96      | 30    | 49              | 19    | 35                   | 2.95                     | -0.93                     | 1.90                 | 0                         | 7                            | 22    | 7          | 2      | nw.                          |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 55                      | .....                        | .....                     | 96†     | 30    | .....           | ..... | .....                | 2.14                     | -2.43                     | .....                | 0                         | 5                            | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117             | 54                      | 75.6                         | -0.6                      | 94      | 30    | 60              | 18    | 23                   | 3.18                     | -1.15                     | 1.52                 | 0                         | 6                            | 13    | 6          | 12     | w.                           |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 72.5                         | -1.6                      | 97      | 30    | 41              | 19    | 44                   | 2.25                     | -2.16                     | 2.40                 | 0                         | 6                            | 20    | 7          | 4      | w.                           |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 35                      | 69.7 <sup>b</sup>            | -2.7                      | 95      | 30    | 49 <sup>m</sup> | 28    | 31 <sup>m</sup>      | 0.92                     | -3.62                     | 0.33                 | 0                         | 5                            | 28    | 3          | 0      | sw.                          | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 50                      | 72.2                         | +0.1                      | 92      | 30    | 56              | 18    | 23                   | 1.45                     | -2.33                     | 0.49                 | 0                         | 8                            | 16    | 10         | 5      | s.                           |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 40                      | 73.4                         | 0.0                       | 93      | 30    | 59              | 3     | 25                   | 1.31                     | -2.47                     | 1.00                 | 0                         | 6                            | 16    | 10         | 5      | s.                           |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 17                      | 70.7                         | -1.4                      | 96      | 30    | 54              | 19    | 27                   | 1.02                     | -3.90                     | 0.59                 | 0                         | 5                            | 18    | 11         | 2      | s.                           |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 26                      | 72.6                         | -1.1                      | 91      | 30    | 60              | 19    | 24                   | 1.22                     | -3.57                     | 0.49                 | 0                         | 8                            | 14    | 8          | 9      | s.                           |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 71.7                         | -1.0                      | 96      | 30    | 49              | 28    | 31                   | 1.18                     | -3.18                     | 1.00                 | 0                         | 6                            | 18    | 9          | 4      | s.                           |                                                                                                                          |
| For the State.....                          |                 |                 |                         | 71.6                         | -1.6                      | 98      | 30    | 41              | 19†   | 44                   | 2.59                     | -2.05                     | 4.09                 | 0                         | 6                            | 19    | 8          | 4      | s.                           |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for July, 1924

| Stations                                   | Drainage Basin  | Day of month |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    | Total |
|--------------------------------------------|-----------------|--------------|-----|----|---|-----|----|------|------|------|-----|----|----|------|-----|----|----|------|-----|----|----|----|------|------|-----|-----|-----|----|----|-----|------|----|-------|
|                                            |                 | 1            | 2   | 3  | 4 | 5   | 6  | 7    | 8    | 9    | 10  | 11 | 12 | 13   | 14  | 15 | 16 | 17   | 18  | 19 | 20 | 21 | 22   | 23   | 24  | 25  | 26  | 27 | 28 | 29  | 30   | 31 |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    |       |
| Belvidere.....                             | Delaware.....   |              | .12 |    |   |     |    | .06  | .66  |      |     |    |    | .80  |     |    |    |      |     |    |    |    | .77  |      |     | .06 |     |    |    | .05 |      |    | 2.52  |
| Charlotteburg.....                         | Passaic.....    |              |     |    |   |     |    | 4.00 |      |      |     |    |    | .41  |     |    |    |      |     |    |    |    | .05  |      |     |     |     |    |    |     | .14  |    | 4.60  |
| Culvers Lake.....                          | Delaware.....   |              | .23 |    |   |     |    | .27  | .61  | .05  | .17 |    |    | .75  |     |    |    |      |     |    |    |    | .01  | .05  |     | .01 |     |    |    |     | .05  |    | 2.20  |
| Dover.....                                 | Passaic.....    |              |     |    |   |     |    | 2.00 |      |      |     |    |    | .63  |     |    |    |      |     |    |    |    | .23  |      |     | .06 |     |    |    |     | .03  |    | 2.95  |
| Layton.....                                | Delaware.....   |              |     |    |   |     |    | .34  | .65  |      |     |    |    | .34  |     |    |    | .03  |     |    |    |    | .06  | .07  |     | T.  |     |    |    |     | .01  |    | 1.50  |
| Newton.....                                | Delaware.....   |              |     |    |   |     |    | 1.92 | .14  |      |     |    |    | .82  | .06 |    |    |      |     |    |    |    | .04  |      |     | .42 |     | T. |    |     | .03  |    | 3.43  |
| Phillipsburg.....                          | do.....         |              | .02 |    |   |     |    | .10  | .97  |      | T.  |    |    | .35  |     |    |    | .04  |     |    |    |    | .44  |      |     | .08 |     |    |    |     | .07  |    | 2.07  |
| Sussex.....                                | Hudson.....     |              |     |    |   |     |    | 1.58 |      |      | .19 |    |    | .83  |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    | 2.60  |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    |       |
| Bergen Point.....                          | Coast.....      |              |     |    |   |     |    | .40  | .19  | .03  |     |    |    | .33  |     |    |    | .05  |     |    |    |    |      | .15  |     |     |     |    |    | T.  | .04  |    | 1.19  |
| Boonton   .....                            | Passaic.....    |              |     |    |   |     |    | T.   | 3.03 |      |     |    |    | .25  | .11 |    |    | T.   |     |    |    |    |      | .14  |     |     |     |    |    |     |      |    | 3.53  |
| Chatham   .....                            | do.....         |              |     |    |   |     |    |      | 4.09 |      | .07 |    |    |      | .07 |    |    |      |     |    |    |    |      | .24  |     |     |     |    |    |     |      |    | 4.47  |
| Elizabeth.....                             | Coast.....      |              |     |    |   |     |    | .27  | 1.20 | .39  |     |    |    | .32  | T.  |    |    | 1.30 |     |    |    |    |      | .16  |     |     |     |    |    |     |      |    | 3.64  |
| Flemington.....                            | Raritan.....    |              |     |    |   | .03 |    | .46  | .31  |      |     |    |    | .51  |     |    |    | .32  |     |    |    |    | .02  | .22  |     | T.  |     |    |    |     | .50  |    | 2.37  |
| Highwood.....                              | Hackensack..... |              |     |    |   |     |    | .52  | .03  | T.   |     |    |    | .40  |     |    |    | T.   |     |    |    |    | T.   | .02  |     | T.  |     |    |    |     | 1.76 |    | 2.73  |
| Jersey City.....                           | Coast.....      |              |     |    |   |     |    | .28  |      | .40  |     |    |    | .25  |     |    |    | .05  |     |    |    |    | .08  | T.   |     | T.  |     |    |    |     | .24  |    | 1.30  |
| Lambertville.....                          | Delaware.....   |              |     |    |   | T.  |    | 2.10 | .03  | .10  |     |    |    | .27  | .15 |    |    | .22  |     |    |    |    | .08  | .39  |     | .06 |     |    |    |     |      |    | 3.40  |
| Little Falls.                              | Passaic.....    |              |     |    |   |     |    | T.   | 4.00 |      |     |    |    | .23  | .13 |    |    | .08  |     |    |    |    |      |      | .07 |     |     |    |    |     |      |    | 4.51  |
| New Brunswick.....                         | Raritan.....    |              |     |    |   |     |    | .68  | .78  | .10  |     |    |    | .36  |     |    |    | T.   |     |    |    |    |      | .53  |     |     |     |    |    |     | .30  |    | 2.75  |
| New Milford.....                           | Hackensack..... |              |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    |       |
| Paterson.....                              | Passaic.....    |              |     |    |   |     | T. |      | .63  | 2.01 | T.  |    |    | .45  | .15 |    |    | .04  |     |    |    |    | T.   | .07  |     | T.  |     |    |    |     | .55  |    | 3.90  |
| Plainfield.....                            | Raritan.....    |              |     |    |   |     |    | 3.40 | .48  | .22  |     |    |    | .23  |     |    |    | .06  |     |    |    |    | .23  |      |     | T.  |     |    |    | .06 |      |    | 4.68  |
| Somerville.....                            | Raritan.....    |              |     |    |   |     |    | 2.40 | .77  | .02  |     |    |    | .45  |     |    |    | .51  |     |    |    |    | T.   | .29  |     | T.  |     |    |    |     | .64  |    | 5.08  |
| South Orange.....                          | Rahway.....     |              |     |    |   | T.  |    | 2.94 |      | .27  |     |    |    | .20  |     |    |    | .04  |     |    |    |    | .18  | .05  |     |     |     |    |    | .01 |      |    | 3.69  |
| Woodcliff Lake.**                          | Hackensack..... |              |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    |       |
| New York, N. Y.**                          | Coast.....      |              |     |    |   |     |    | .34  |      | .22  |     |    |    | .25  |     |    |    | .05  |     |    |    |    | .07  | .01  |     | T.  |     |    |    | .01 | .35  |    | 1.30  |
| <i>The Southern Interior.</i>              |                 |              |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    |       |
| Belle Plain.....                           | Tuckahoe.....   | .11          | .03 |    |   | .02 |    | .05  | .02  |      |     |    |    | .07  |     |    |    | .07  |     |    |    |    | .05  | .42  |     |     |     |    |    |     |      |    | 0.84  |
| Bridgeton.....                             | Coast.....      |              | T.  |    |   | T.  |    | .80  |      |      |     |    |    | .06  |     |    |    |      |     |    |    |    |      | 1.25 |     |     |     |    |    |     |      |    | 2.11  |
| Burlington.....                            | Delaware.....   |              |     |    |   |     |    | .62  | .82  | .14  |     |    |    | .68  |     |    |    | .15  |     |    |    |    |      | .68  |     |     |     |    |    |     |      |    | 3.09  |
| Clayton.....                               | Delaware.....   |              |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    |       |
| Hammononton.....                           | Mullica.....    |              |     |    |   | T.  |    | .04  |      |      |     |    |    | 1.95 |     |    |    | .35  |     |    |    |    |      | 1.05 |     |     |     |    |    |     |      |    | 3.39  |
| Hightstown.....                            | Raritan.....    |              |     |    |   | T.  | T. | .16  | .53  | .10  |     |    |    | .32  | .09 |    |    | .08  |     |    |    |    | T.   | .39  |     | .02 |     |    |    |     | .02  |    | 1.71  |
| Imlaystown.....                            | Delaware.....   |              |     |    |   | .02 |    | .17  | .20  | .23  |     |    |    | .56  | .06 |    |    | .15  |     |    |    |    |      | .57  |     | .03 |     |    |    |     |      |    | 1.99  |
| Indian Mills.....                          | Mullica.....    | .03          |     |    |   | T.  |    | .33  |      |      |     |    |    | 1.30 |     |    |    | .10  |     |    |    |    | .05  | .39  |     |     |     |    |    |     |      |    | 2.20  |
| Lakewood.....                              | Metedeconk..... | .05          |     |    |   |     |    | .08  |      | .14  |     |    |    | .65  |     |    |    | .42  |     |    |    |    | T.   | .56  |     | .09 |     |    |    |     | T.   |    | 1.99  |
| Moorestown.....                            | Delaware.....   | T.           |     |    |   | T.  |    | .82  | .13  | .38  |     |    |    | 1.62 |     |    |    | .06  |     |    |    |    | .05  | .63  |     | T.  |     |    |    |     | T.   |    | 3.69  |
| Northfield.....                            | Coast.....      | .17          | .01 |    |   |     |    |      |      |      |     |    |    | .12  |     |    |    | .43  |     |    |    |    | .13  | .39  |     |     |     |    |    |     |      |    | 1.25  |
| Pleasantville.                             | Coast.....      | .14          | .06 | T. |   | .02 | T. |      |      |      | T.  |    |    | .14  |     |    |    | T.   | .30 |    |    |    |      | .40  |     |     |     |    |    |     |      |    | 1.06  |
| Runyon.....                                | Coast.....      |              |     |    |   |     |    | .35  | .15  | .20  |     |    |    | .23  |     |    |    |      |     |    |    |    |      | .20  |     |     |     |    |    |     |      |    | 1.13  |
| Trenton***                                 | Delaware.....   |              |     |    |   | T.  |    | 2.40 |      |      | T.  |    |    | 1.02 |     |    |    | .06  |     |    |    |    | .64  | T.   |     | .09 |     |    |    |     | T.   | T. | 4.21  |
| Tuckerton.....                             | Coast.....      | .20          |     |    |   | .04 |    | .04  |      |      |     |    |    | 1.90 | .12 |    |    | .18  |     |    |    |    |      | .47  |     |     |     |    |    |     |      |    | 2.95  |
| Vineland.....                              | Maurice.....    |              |     |    |   |     |    | .26  |      | .08  |     |    |    | *    |     |    |    | *    |     |    |    |    | 1.80 |      | .23 |     | .06 |    |    |     |      |    | 2.14  |
| Philadelphia, Pa.                          | Delaware.....   | T.           |     |    |   | T.  | T. | T.   | .85  |      | .04 |    |    | 1.52 |     |    |    | T.   |     |    |    |    | .48  |      | .23 |     | .06 |    |    |     | T.   | T. | 3.18  |
| <i>The Sea Coast.</i>                      |                 |              |     |    |   |     |    |      |      |      |     |    |    |      |     |    |    |      |     |    |    |    |      |      |     |     |     |    |    |     |      |    |       |
| Asbury Park.....                           | Coast.....      |              |     |    |   |     |    |      |      |      | .07 |    |    | .33  |     |    |    | .04  |     |    |    |    |      | .33  |     | .15 |     |    |    |     | T.   |    | 0.92  |
| Atlantic City***                           | do.....         | .21          | .01 |    |   | .01 | T. |      |      | T.   |     |    |    | .22  |     |    |    | .39  |     |    |    |    | .05  | .44  |     | .12 |     |    |    |     | T.   |    | 1.45  |
| Cape May City.....                         | do.....         | .12          | .04 |    |   | .01 |    |      |      |      | T.  |    |    | .14  |     |    |    | T.   |     |    |    |    | .08  | .92  |     |     |     |    |    |     | T.   |    | 1.31  |
| Long Branch**                              | do.....         |              |     |    |   |     |    |      |      |      |     |    |    | .59  |     |    |    |      |     |    |    |    | .08  | .18  |     | .10 |     |    |    |     | .07  |    | 1.02  |
| Sandy Hook***                              | do.....         |              |     |    |   | T.  |    |      | .08  |      | .14 |    |    | .33  |     |    |    | .05  |     |    |    |    | .09  | .03  |     | .01 |     |    |    |     | .49  | T. | 1.22  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations           | Pressure     |         |      |        |      | Wind            |                |           | Moisture                                |                                        | Sun-<br>shine |
|--------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|-----------------------------------------|----------------------------------------|---------------|
|                    | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m |               |
|                    |              |         |      |        |      |                 | Miles per hour | Direction |                                         |                                        | Date          |
| Atlantic City..... | 29.99        | 30.26   | 6    | 29.62  | 17   | 14              | 48             | nw.       | 17                                      | 78                                     | 69            |
| Cape May City..... | 30.05        | 30.29   | 6    | 29.74  | 25   | 6               | 17             | w.        | 10                                      | 80                                     | .....         |
| Long Branch.....   |              |         |      |        |      |                 | 32             | nw.       | 17                                      |                                        |               |
| New York, N. Y.    | 29.99        | 30.25   | 7    | 29.61  | 17   | 14              | 57             | nw.       | 10                                      | 70                                     | 69            |
| Philadelphia, Pa.  | 30.02        | 30.27   | 6    | 29.64  | 17   | 8               | 29             | n.        | 17                                      | 70                                     | 80            |
| Sandy Hook.....    | 29.99        | 30.27   | 6    | 29.58  | 17   | 12              | 56             | nw.       | 17                                      | 76                                     | 76            |
| Trenton.....       | 30.00        | 30.26   | 6    | 29.61  | 17   | 9               | 36             | nw.       | 17                                      | 73                                     | 74            |



## Daily Temperatures for July, 1924

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30    | 31                | Mean              |                   |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |                   |                   |                   |
| Belvidere.....                       | Maximum | 57 | 60 | 80 | 80 | 75 | 82 | 84 | 84 | 84 | 84 | 87 | 83 | 80 | 84 | 79 | 76 | 80 | 80 | 85 | 84 | 86 | 88 | 82 | 79 | 84 | 85 | 91 | 84 | 82.7° |                   |                   |                   |
| Charlotteburg.....                   | Minimum | 57 | 58 | 57 | 58 | 57 | 60 | 67 | 68 | 68 | 67 | 58 | 57 | 57 | 51 | 51 | 64 | 52 | 49 | 50 | 55 | 66 | 65 | 59 | 67 | 53 | 50 | 52 | 55 | 64    | 67                | 59.0              |                   |
| Dover.....                           | Maximum | 77 | 79 | 78 | 81 | 81 | 85 | 86 | 84 | 84 | 84 | 82 | 85 | 80 | 78 | 78 | 83 | 79 | 72 | 82 | 83 | 85 | 84 | 85 | 89 | 82 | 80 | 83 | 89 | 92    | 87                | 82.5              |                   |
| Layton.....                          | Minimum | 50 | 56 | 48 | 47 | 51 | 54 | 60 | 60 | 63 | 61 | 53 | 45 | 60 | 57 | 43 | 44 | 62 | 54 | 53 | 41 | 54 | 61 | 67 | 60 | 53 | 49 | 42 | 48 | 46    | 57                | 64                | 53.6              |
| Newton.....                          | Maximum | 75 | 77 | 79 | 79 | 74 | 84 | 87 | 82 | 85 | 85 | 86 | 83 | 78 | 79 | 85 | 79 | 76 | 82 | 83 | 86 | 82 | 58 | 62 | 52 | 52 | 59 | 52 | 55 | 65    | 65                | 57.0 <sup>a</sup> |                   |
| Phillipsburg.....                    | Minimum | 56 | 56 | 54 | 53 | 58 | 61 | 66 | 68 | 67 | 62 | 57 | 52 | 65 | 57 | 49 | 51 | 52 | 54 | 52 | 49 | 53 | 68 | 62 | 52 | 52 | 59 | 52 | 55 | 65    | 65                | 57.0 <sup>a</sup> |                   |
| Sussex.....                          | Maximum | 76 | 79 | 82 | 82 | 81 | 86 | 85 | 82 | 87 | 85 | 84 | 86 | 86 | 76 | 81 | 86 | 79 | 75 | 81 | 84 | 88 | 84 | 89 | 94 | 84 | 82 | 84 | 88 | 93    | 95                | 86                | 84.2              |
| Belvidere.....                       | Minimum | 50 | 56 | 56 | 55 | 56 | 57 | 65 | 67 | 67 | 63 | 50 | 51 | 64 | 54 | 43 | 50 | 59 | 53 | 43 | 44 | 50 | 64 | 66 | 54 | 62 | 45 | 47 | 44 | 50    | 69                | 64                | 55.4              |
| Charlotteburg.....                   | Maximum | 72 | 78 | 79 | 81 | 78 | 83 | 86 | 84 | 85 | 80 | 86 | 84 | 81 | 83 | 85 | 78 | 74 | 79 | 81 | 86 | 80 | 85 | 90 | 84 | 82 | 84 | 88 | 93 | 95    | 86                | 84.2              |                   |
| Dover.....                           | Minimum | 60 | 57 | 56 | 60 | 56 | 60 | 68 | 68 | 70 | 65 | 59 | 58 | 66 | 59 | 50 | 55 | 55 | 49 | 53 | 65 | 58 | 60 | 70 | 62 | 52 | 49 | 55 | 60 | 56    | 70                | 59.4 <sup>a</sup> |                   |
| Layton.....                          | Maximum | 73 | 79 | 80 | 81 | 74 | 84 | 87 | 85 | 86 | 87 | 86 | 88 | 87 | 86 | 81 | 88 | 82 | 77 | 82 | 85 | 88 | 84 | 89 | 91 | 85 | 79 | 84 | 87 | 90    | 94                | 87                | 84.4              |
| Newton.....                          | Minimum | 59 | 61 | 56 | 59 | 58 | 62 | 68 | 69 | 69 | 68 | 59 | 58 | 59 | 52 | 55 | 64 | 56 | 52 | 64 | 66 | 60 | 69 | 53 | 52 | 66 | 53 | 53 | 63 | 67    | 62                | 60.5 <sup>a</sup> |                   |
| Phillipsburg.....                    | Maximum | 74 | 80 | 81 | 83 | 87 | 88 | 87 | 86 | 84 | 82 | 87 | 85 | 80 | 80 | 84 | 82 | 74 | 80 | 82 | 88 | 87 | 91 | 83 | 87 | 94 | 93 | 84 | 93 | 84    | 84.1 <sup>b</sup> |                   |                   |
| Sussex.....                          | Minimum | 52 | 58 | 56 | 52 | 58 | 65 | 61 | 70 | 63 | 52 | 51 | 65 | 59 | 46 | 50 | 61 | 53 | 52 | 45 | 44 | 67 | 56 | 54 | 47 | 47 | 57 | 59 | 65 | 65    | 56.2°             |                   |                   |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |                   |                   |                   |
| Bergen Point.....                    | Maximum | 70 | 74 | 75 | 79 | 71 | 83 | 87 | 82 | 87 | 87 | 85 | 88 | 85 | 77 | 80 | 87 | 82 | 77 | 82 | 82 | 87 | 83 | 89 | 92 | 83 | 82 | 85 | 82 | 84    | 95                | 85                | 82.8              |
| Boonton§§.....                       | Minimum | 62 | 60 | 62 | 62 | 64 | 62 | 68 | 70 | 69 | 70 | 64 | 64 | 64 | 59 | 61 | 65 | 59 | 57 | 57 | 72 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75    | 75                | 75                | 75                |
| Elizabeth.....                       | Maximum | 72 | 80 | 84 | 82 | 75 | 83 | 88 | 84 | 84 | 85 | 84 | 85 | 84 | 85 | 84 | 80 | 75 | 82 | 83 | 85 | 88 | 88 | 83 | 81 | 85 | 86 | 90 | 91 | 83    | 83.1              |                   |                   |
| Flemington.....                      | Minimum | 55 | 52 | 51 | 52 | 53 | 59 | 63 | 64 | 66 | 65 | 60 | 52 | 66 | 54 | 49 | 51 | 54 | 56 | 49 | 51 | 65 | 67 | 58 | 61 | 51 | 48 | 50 | 58 | 64    | 66                | 56.6              |                   |
| Highwood.....                        | Maximum | 79 | 77 | 82 | 82 | 73 | 86 | 90 | 90 | 90 | 91 | 88 | 91 | 87 | 85 | 82 | 90 | 85 | 80 | 84 | 83 | 92 | 87 | 92 | 94 | 92 | 86 | 87 | 86 | 96    | 90                | 86.6 <sup>a</sup> |                   |
| Jersey City.....                     | Minimum | 61 | 57 | 55 | 57 | 63 | 61 | 66 | 68 | 67 | 69 | 60 | 57 | 68 | 60 | 53 | 56 | 66 | 56 | 54 | 53 | 58 | 67 | 67 | 66 | 72 | 63 | 63 | 63 | 63    | 63                | 63                | 63                |
| Lambertville.....                    | Maximum | 59 | 57 | 55 | 57 | 59 | 61 | 66 | 67 | 68 | 69 | 60 | 55 | 67 | 58 | 52 | 55 | 62 | 55 | 53 | 52 | 57 | 67 | 65 | 61 | 70 | 55 | 52 | 53 | 55    | 65                | 67                | 60.2              |
| Little Falls§§.....                  | Minimum | 70 | 77 | 80 | 79 | 72 | 82 | 86 | 81 | 85 | 85 | 87 | 87 | 83 | 79 | 81 | 86 | 80 | 76 | 84 | 83 | 83 | 92 | 93 | 84 | 79 | 82 | 85 | 88 | 95    | 89                | 85.4              |                   |
| New Brunswick.....                   | Maximum | 58 | 56 | 55 | 56 | 60 | 62 | 67 | 69 | 67 | 71 | 59 | 54 | 69 | 59 | 50 | 54 | 67 | 55 | 49 | 48 | 54 | 65 | 68 | 59 | 70 | 51 | 52 | 51 | 51    | 61                | 67                | 59.2              |
| Paterson.....                        | Minimum | 73 | 74 | 80 | 79 | 71 | 82 | 85 | 85 | 86 | 85 | 84 | 86 | 84 | 79 | 86 | 80 | 74 | 78 | 83 | 85 | 86 | 86 | 90 | 83 | 80 | 82 | 85 | 89 | 92    | 86                | 83.0              |                   |
| Plainfield.....                      | Maximum | 62 | 61 | 62 | 62 | 61 | 62 | 67 | 69 | 69 | 69 | 67 | 68 | 68 | 66 | 61 | 65 | 64 | 57 | 58 | 63 | 64 | 67 | 68 | 70 | 67 | 61 | 61 | 66 | 65    | 68                | 64.7              |                   |
| Somerville.....                      | Minimum | 72 | 77 | 78 | 80 | 70 | 83 | 89 | 86 | 86 | 86 | 83 | 88 | 84 | 78 | 79 | 86 | 80 | 74 | 78 | 83 | 85 | 86 | 86 | 90 | 83 | 80 | 82 | 85 | 89    | 92                | 86                | 82.7              |
| South Orange.....                    | Maximum | 61 | 58 | 57 | 57 | 66 | 61 | 67 | 69 | 68 | 67 | 68 | 66 | 71 | 58 | 55 | 62 | 55 | 53 | 52 | 57 | 67 | 65 | 61 | 70 | 55 | 52 | 53 | 55 | 65    | 67                | 60.2              |                   |
| New York, N. Y.....                  | Minimum | 78 | 82 | 84 | 83 | 80 | 87 | 89 | 86 | 86 | 86 | 83 | 88 | 84 | 78 | 79 | 86 | 80 | 74 | 78 | 83 | 85 | 86 | 86 | 90 | 83 | 80 | 82 | 85 | 89    | 92                | 86                | 83.4              |
| Belle Plain.....                     | Maximum | 59 | 56 | 54 | 52 | 49 | 62 | 64 | 65 | 68 | 68 | 57 | 55 | 70 | 59 | 47 | 55 | 68 | 45 | 41 | 45 | 55 | 60 | 70 | 56 | 69 | 55 | 47 | 45 | 44    | 61                | 60                | 56.8              |
| Bridgeton.....                       | Minimum | 74 | 75 | 80 | 77 | 75 | 85 | 87 | 85 | 89 | 92 | 90 | 88 | 86 | 83 | 86 | 92 | 80 | 84 | 87 | 87 | 90 | 92 | 94 | 94 | 87 | 85 | 84 | 87 | 88    | 97                | 92                | 86.0              |
| Burlington.....                      | Maximum | 65 | 60 | 56 | 58 | 60 | 62 | 67 | 70 | 68 | 70 | 64 | 61 | 79 | 63 | 59 | 62 | 70 | 54 | 54 | 58 | 60 | 68 | 70 | 63 | 73 | 60 | 59 | 57 | 59    | 68                | 74                | 86.6              |
| Clayton.....                         | Minimum | 77 | 79 | 84 | 83 | 86 | 94 | 95 | 94 | 89 | 88 | 91 | 92 | 85 | 83 | 89 | 87 | 73 | 84 | 87 | 90 | 91 | 90 | 94 | 89 | 86 | 87 | 90 | 91 | 96    | 91                | 87.8 <sup>a</sup> |                   |
| Hightstown.....                      | Maximum | 62 | 58 | 56 | 59 | 58 | 61 | 62 | 66 | 70 | 62 | 60 | 61 | 62 | 58 | 58 | 69 | 54 | 53 | 55 | 62 | 66 | 69 | 62 | 69 | 57 | 55 | 56 | 58 | 67    | 69                | 61                | 61.2 <sup>b</sup> |
| Imlaystown.....                      | Minimum | 75 | 78 | 80 | 80 | 71 | 82 | 83 | 90 | 87 | 88 | 84 | 90 | 85 | 79 | 88 | 84 | 79 | 76 | 79 | 82 | 87 | 88 | 87 | 91 | 83 | 81 | 81 | 81 | 86    | 88                | 95                | 87                |
| Indian Mills.....                    | Maximum | 60 | 54 | 52 | 54 | 59 | 57 | 59 | 67 | 66 | 65 | 56 | 67 | 56 | 54 | 64 | 53 | 49 | 50 | 57 | 63 | 65 | 60 | 67 | 52 | 50 | 50 | 53 | 65 | 66    | 58.3 <sup>b</sup> |                   |                   |
| Lakewood.....                        | Minimum | 81 | 76 | 81 | 81 | 70 | 89 | 93 | 86 | 89 | 87 | 89 | 86 | 89 | 86 | 79 | 89 | 86 | 79 | 84 | 89 | 88 | 91 | 89 | 96 | 87 | 84 | 84 | 88 | 94    | 96                | 94                | 87.9 <sup>a</sup> |
| Moorestown.....                      | Maximum | 61 | 57 | 55 | 58 | 62 | 60 | 70 | 69 | 70 | 59 | 57 | 68 | 59 | 52 | 55 | 61 | 55 | 49 | 51 | 58 | 65 | 67 | 61 | 69 | 54 | 52 | 51 | 54 | 66    | 67                | 59.9 <sup>a</sup> |                   |
| Pleasantville§§.....                 | Minimum | 79 | 75 | 82 | 78 | 73 | 84 | 90 | 86 | 88 | 90 | 89 | 90 | 86 | 80 | 84 | 89 | 88 | 78 | 82 | 88 | 87 | 88 | 89 | 94 | 84 | 84 | 85 | 86 | 92    | 96                | 88                | 85.3              |
| Runyon.....                          | Maximum | 60 | 57 | 52 | 56 | 60 | 60 | 65 | 68 | 69 | 63 | 58 | 70 | 61 | 50 | 58 | 65 | 52 | 48 | 51 | 59 | 62 | 69 | 60 | 60 | 54 | 51 | 49 | 49 | 65    | 65                | 58.8 <sup>a</sup> |                   |
| Trenton.....                         | Minimum | 80 | 70 | 73 | 74 | 71 | 72 | 86 | 85 | 89 | 88 | 86 | 87 | 87 | 80 | 78 | 85 | 83 | 78 | 80 | 82 | 84 | 84 | 89 | 90 | 89 | 81 | 80 | 80 | 83    | 94                | 93                | 82.6              |
| Vineland.....                        | Maximum | 61 | 58 | 57 | 55 | 62 | 60 | 66 | 69 | 71 | 69 | 59 | 58 | 69 | 62 | 51 | 55 | 60 | 52 | 50 | 57 | 65 | 69 | 61 | 70 | 55 | 53 | 51 | 54 | 67    | 68                | 60.5              |                   |
| Philadelphia, Pa.....                | Minimum | 75 | 79 | 83 | 82 | 75 | 89 | 91 | 89 | 88 | 88 | 88 | 86 | 84 | 83 | 87 | 86 | 79 | 81 | 87 | 89 | 87 | 90 | 91 | 85 | 84 | 86 | 89 | 91 | 94    | 87                | 85.8              |                   |
| Asbury Park.....                     | Maximum | 62 | 63 | 56 | 59 | 60 | 61 | 66 | 68 | 70 | 68 | 64 | 68 | 62 | 62 | 57 | 59 | 69 | 53 | 52 | 56 | 60 | 65 | 70 | 64 | 60 | 56 | 55 | 57 | 68    | 69                | 62.1              |                   |
|                                      |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |                   |                   |                   |
|                                      |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

THE LIBRARY OF THE

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

SEP 26 1924

VOL. XXIX.

AUGUST, 1924.

UNIVERSITY OF ILLINOIS  
No. 8

### GENERAL SUMMARY.

The general weather conditions during August averaged about normal, although there were several unusual features which occasioned comment. There were warm periods from the 5th to the 11th, and again from the 27th through the close of the month. On the 6th temperatures rose above 100° in localities favorable for excessive warmth. It was cool from the 1st to the 4th, and again from the 12th to the 23d. Rain, both in volume and frequency, was slightly deficient and by far the major portion of it fell during the occurrence of two tropical storms which moved along the coast, the first on the 12th, and the other on the 25-26th. During these storms rain fell almost everywhere in excess of an inch, and in some instances exceeded four inches in 24 hours. More than the usual amount of sunshine and clear sky was recorded, and the month was more than ordinarily favorable for all out-of-door interests. The frequent periods of oppressive humidity usually experienced in August were almost entirely lacking, and this may have been a contributing factor toward hindering the best development of crop growth, but weather conditions were especially favorable for the harvest of hay and grain.

The locations of stations with temperatures above and below the monthly normal were indiscriminately scattered over the State. The region of heaviest rainfall extended diagonally across the State from Mercer County to Sandy Hook Bay and Bergen County.

Storm warnings were displayed along the coast on the 25th and 26th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 35 stations, was 71.9°, which was normal. The highest temperature was 102° at Indian Mills on the 6th, and the lowest, 38° at Runyon on the 19th. The highest monthly mean temperature was 75.2° at Vineland, and the lowest 68.2° at Charlotteburg. The greatest daily range of temperature was 44° at Layton on the 31st.

The temperature departure from the normal for the year 1924 to date, by sections, is: The Highlands, -1.1°; Red Sandstone Plain, -1.0°; Southern Interior, -1.0°; Sea Coast, -0.3°.

### PRECIPITATION.

The average total rainfall of the State, as deduced from observations of 41 stations, was 4.40 inches, which was 0.50 inch below the normal. The greatest monthly amount was 9.48 inches at Runyon, and the least, 1.82 inches at Charlotteburg. The greatest amount accumulated in any 24 consecutive hours was 4.35 inches at Runyon on the 12th. The average number of days on which 0.01 inch or more fell was 8, which was 2 less than the normal.

The accumulated precipitation departure from the normal for the year 1924 to date, by sections, is: The Highlands, -2.97 inches; Red Sandstone Plain, +3.47 inches; Southern Interior, +5.06 inches; Sea Coast, -2.09 inches.

### WIND.

The prevailing wind direction was from the southwest, with an average velocity of 10 miles per hour, which was 1 mile per hour above the normal. The highest velocity, sustained for 5 consecutive minutes, was 72 miles per hour from the north at Atlantic City on the 26th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, or 5 more than the normal; partly cloudy, 8, or 3 less than the normal; cloudy, 5, or 2 less than the normal. The per cent of possible sunshine was 70, which was 4 per cent more than the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.99 inches, which was 0.01 inch below the normal. The highest reading was 30.29 inches at Cape May City, Sandy Hook, and Trenton on the 4th, and the lowest 29.30 inches at Atlantic City on the 26th.

The mean stage of the Delaware River at Phillipsburg was 0.5 foot; and the highest stage 1.1 feet on the 14th. At Trenton the mean daily stage was 0.2 foot, which was 0.9 foot below the normal. The highest stage was 0.8 foot on the 14th.

Thunderstorms occurred in some portions of the State on the 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 17th, 21st, 23d, 24th, 25th, and 26th. Dense fog was noted on the 6th, 13th, and 24th. Solar halos were observed on the 11th, 14th, 19th, and 25th, and lunar halos on the 6th and 8th.

Hail fell, without appreciable damage, at Somerville on the 9th, and at Copper Hill on the 10th.

### COMPARATIVE DATA FOR AUGUST

| Year | Temperature |         |        | Precipitation |          |       | No of days |               |        |                       |
|------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|-----------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec |
| 1885 | 71.7        | 95      | 40     | 6.11          | 10.09    | 3.47  | .....      | .....         | .....  | .....                 |
| 1886 | 69.5        | 96      | 42     | 2.81          | 5.36     | 1.10  | .....      | .....         | .....  | 8                     |
| 1887 | 70.4        | 94      | 42     | 3.76          | 7.34     | 2.09  | .....      | .....         | .....  | 8                     |
| 1888 | 72.5        | 98      | 41     | 6.13          | 10.53    | 2.55  | .....      | .....         | .....  | 9                     |
| 1889 | 69.6        | 91      | 45     | 5.13          | 9.06     | 1.93  | .....      | .....         | .....  | 10                    |
| 1890 | 71.5        | 99      | 40     | 4.90          | 7.51     | 2.89  | 8          | 15            | 8      | 11                    |
| 1891 | 72.8        | 100     | 46     | 5.32          | 8.89     | 2.58  | 8          | 11            | 12     | 13                    |
| 1892 | 73.4        | 99      | 46     | 3.63          | 5.65     | 0.72  | 12         | 13            | 6      | 9                     |
| 1893 | 72.8        | 98      | 38     | 6.52          | 11.94    | 3.55  | 14         | 11            | 6      | 8                     |
| 1894 | 70.9        | 97      | 44     | 2.58          | 9.28     | 0.15  | 13         | 12            | 6      | 7                     |
| 1895 | 74.2        | 102     | 34     | 2.53          | 5.06     | 0.02  | 16         | 12            | 3      | 7                     |
| 1896 | 73.6        | 105     | 39     | 1.83          | 3.27     | 0.50  | 17         | 10            | 4      | 7                     |
| 1897 | 71.0        | 91      | 41     | 4.39          | 8.69     | 2.07  | 14         | 12            | 5      | 9                     |
| 1898 | 74.8        | 98      | 42     | 5.36          | 9.28     | 2.70  | 12         | 12            | 7      | 10                    |
| 1899 | 72.3        | 99      | 39     | 4.36          | 9.70     | 2.16  | 10         | 12            | 9      | 9                     |
| 1900 | 76.3        | 104     | 41     | 2.68          | 4.56     | 0.70  | 15         | 11            | 5      | 10                    |
| 1901 | 73.8        | 98      | 44     | 9.43          | 15.80    | 4.88  | 12         | 10            | 9      | 11                    |
| 1902 | 70.1        | 93      | 40     | 3.91          | 10.67    | 1.31  | 15         | 13            | 3      | 9                     |
| 1903 | 68.4        | 98      | 39     | 6.95          | 14.54    | 4.30  | 10         | 10            | 11     | 13                    |
| 1904 | 70.8        | 92      | 37     | 6.62          | 13.01    | 2.65  | 15         | 10            | 6      | 9                     |
| 1905 | 71.1        | 95      | 38     | 5.72          | 9.88     | 3.51  | 13         | 10            | 8      | 12                    |
| 1906 | 74.6        | 97      | 42     | 5.95          | 17.91    | 2.21  | 10         | 11            | 10     | 13                    |
| 1907 | 70.5        | 96      | 39     | 3.45          | 7.61     | 1.79  | 14         | 12            | 5      | 10                    |
| 1908 | 70.6        | 103     | 36     | 5.05          | 9.23     | 2.43  | 11         | 10            | 10     | 10                    |
| 1909 | 70.2        | 100     | 34     | 4.59          | 12.94    | 1.41  | 14         | 9             | 8      | 6                     |
| 1910 | 70.4        | 92      | 36     | 3.78          | 8.46     | 1.76  | 9          | 10            | 12     | 10                    |
| 1911 | 72.1        | 101     | 39     | 8.91          | 14.74    | 5.31  | 10         | 11            | 10     | 11                    |
| 1912 | 70.0        | 95      | 35     | 3.42          | 7.62     | 1.19  | 12         | 13            | 6      | 10                    |
| 1913 | 71.7        | 100     | 38     | 4.06          | 10.21    | 1.93  | 18         | 9             | 4      | 10                    |
| 1914 | 73.3        | 98      | 46     | 3.15          | 6.53     | 1.04  | 13         | 12            | 6      | 9                     |
| 1915 | 70.9        | 98      | 41     | 7.73          | 10.92    | 4.02  | 11         | 11            | 9      | 13                    |
| 1916 | 73.2        | 100     | 40     | 1.34          | 4.15     | 0.27  | 20         | 7             | 4      | 6                     |
| 1917 | 74.0        | 103     | 42     | 2.21          | 5.68     | 0.86  | 18         | 9             | 4      | 8                     |
| 1918 | 74.4        | 108     | 40     | 1.85          | 4.25     | 0.34  | 18         | 7             | 6      | 7                     |
| 1919 | 69.9        | 98      | 38     | 6.89          | 12.88    | 3.09  | 13         | 10            | 8      | 13                    |
| 1920 | 72.3        | 94      | 42     | 6.10          | 10.60    | 2.94  | 8          | 11            | 12     | 17                    |
| 1921 | 69.8        | 97      | 38     | 4.32          | 8.01     | 2.05  | 18         | 7             | 6      | 9                     |
| 1922 | 71.2        | 96      | 39     | 4.03          | 6.78     | 2.18  | 13         | 9             | 9      | 12                    |
| 1923 | 70.8        | 98      | 35     | 2.44          | 4.81     | 1.23  | 17         | 8             | 6      | 8                     |
| 1924 | 71.9        | 102     | 38     | 4.40          | 9.48     | 1.82  | 18         | 8             | 5      | 8                     |



## Climatological Data for August, 1924

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |                  |       |                 |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|------------------|-------|-----------------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest          | Date  | Lowest          | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |                  |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 33                      | 69.6 <sup>b</sup>            | -1.4                      | 94               | 6†    | 44              | 19    | 35                       | 3.09  | -1.52                     | 2.25                 | 0                         | 9                            | 24    | 2          | 5                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 32                      | 68.2                         | +0.3                      | 95               | 7†    | 40              | 19    | 42                       | 1.82  | -2.80                     | 1.38                 | 0                         | 7                            | 10    | 10         | 11                           | w.        |                                                                                                                          |
| Culvers Lake†.....                   | Sussex.....     | 848             | 23                      | .....                        | .....                     | .....            | ..... | 47              | 2     | .....                    | 3.23  | -1.19                     | 2.22                 | 0                         | 10                           | 20    | 8          | 3                            | .....     |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 40                      | 69.5 <sup>d</sup>            | +0.4                      | 95               | 7†    | 46              | 19    | 36                       | 3.31  | -1.45                     | 2.06                 | 0                         | 10                           | 7     | 17         | 7                            | .....     |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 23                      | 69.2                         | +0.8                      | 101              | 6     | 39              | 19    | 44                       | 2.54  | -1.36                     | 1.88                 | 0                         | 8                            | 16    | 8          | 7                            | w.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 41                      | 70.9 <sup>d</sup>            | +0.5                      | 100 <sup>d</sup> | 31    | 48              | 3†    | 34                       | 2.89  | -1.53                     | 2.02                 | 0                         | 6                            | 20    | 8          | 3                            | sw.       |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 41                      | 72.0 <sup>b</sup>            | +0.2                      | 100              | 6     | 52 <sup>d</sup> | 15†   | 38                       | 2.68  | -1.94                     | 1.94                 | 0                         | 5                            | 24    | 3          | 4                            | .....     |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 30                      | 69.4 <sup>d</sup>            | -0.1                      | 97               | 31    | 41              | 19    | 41                       | 3.12  | -1.14                     | 2.90                 | 0                         | 7                            | ..... | .....      | .....                        | sw.       |                                                                                                                          |
| Means and extremes.....              |                 |                 |                         | 69.8                         | +0.1                      | 101              | 6     | 39              | 19    | 44                       | 2.84  | -1.62                     | 2.90                 | 0                         | 8                            | 17    | 8          | 6                            | sw.       |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |                  |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                  | Hudson.....     | 37              | 27                      | 74.1 <sup>b</sup>            | +1.9                      | 97               | 7†    | 53              | 19    | 32                       | 5.50  | +0.44                     | 3.00                 | 0                         | 7                            | 7     | 20         | 4                            | nw.       | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                         | Morris.....     | 400             | 34                      | 69.6                         | -1.7                      | 96               | 6     | 45              | 19    | 35                       | 3.82  | -1.26                     | 1.13                 | 0                         | 11                           | 22    | 1          | 8                            | sw.       |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 20                      | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | 6.40  | +1.99                     | 2.03                 | 0                         | 9                            | 25    | 4          | 2                            | .....     |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 45                      | 73.6 <sup>b</sup>            | +0.2                      | 101              | 7     | 53              | 16    | 36                       | 6.03  | +1.74                     | 3.15                 | 0                         | 6                            | 20    | 6          | 5                            | sw.       |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 38                      | 72.8                         | +0.3                      | 99               | 6†    | 48              | 19    | 40                       | 2.99  | -1.72                     | 2.31                 | 0                         | 6                            | 23    | 4          | 4                            | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                      | Bergen.....     | 90              | 36                      | 69.7                         | -1.1                      | 95               | 7     | 46              | 19    | 33                       | 5.63  | +0.88                     | 2.58                 | 0                         | 10                           | 11    | 10         | 10                           | sw.       |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 26                      | 74.2                         | +0.1                      | 97               | 7     | 56              | 19    | 26                       | 6.73  | +2.20                     | 3.00                 | 0                         | 7                            | 16    | 10         | 5                            | sw.       |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 37                      | 71.6                         | -0.8                      | 97               | 6     | 50              | 19    | 29                       | 4.16  | -0.50                     | 2.48                 | 0                         | 10                           | 20    | 6          | 5                            | sw.       |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 21                      | 71.4                         | -1.8                      | 97               | 7     | 46              | 19    | 36                       | 4.92  | +0.52                     | 1.81                 | 0                         | 10                           | 16    | 10         | 5                            | nw.       | Passaic Consol. Water Co.<br>N. J. Experiment Station.<br>Hackensack Water Co.<br>Marion T. Probert.                     |
| New Brunswick.....                   | Middlesex.....  | 110             | 71                      | 72.0 <sup>b</sup>            | -0.1                      | 98               | 6†    | 42              | 18    | 32                       | 6.90  | +1.75                     | 4.07                 | 0                         | 8                            | 21    | 7          | 3                            | w.        |                                                                                                                          |
| New Milford†.....                    | Bergen.....     | 9               | 4                       | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | 4.78  | .....                     | 1.94                 | 0                         | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 53                      | 73.3                         | +1.1                      | 98               | 7     | 52              | 19    | 32                       | 5.00  | +0.27                     | 2.11                 | 0                         | 10                           | 15    | 1          | 15                           | nw.       |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 36                      | 72.2 <sup>a</sup>            | +0.4                      | 97               | 6†    | 49              | 3     | 33                       | 5.37  | +0.15                     | 2.50                 | 0                         | 6                            | 14    | 12         | 5                            | sw.       | E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                                           |
| Somerville.....                      | Somerset.....   | 70              | 41                      | 70.0 <sup>b</sup>            | -2.4                      | 96               | 6†    | 45              | 19    | 30                       | 4.70  | -0.14                     | 2.39                 | 0                         | 6                            | 25    | 0          | 6                            | w.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 54                      | 72.0 <sup>b</sup>            | +1.1                      | 95               | 6†    | 53              | 19    | 28                       | 5.60  | +0.52                     | 2.74                 | 0                         | 8                            | 23    | 3          | 5                            | nw.       |                                                                                                                          |
| Woodcliff Lake†.....                 | Bergen.....     | 100             | 4                       | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | 3.20  | .....                     | 1.50                 | 0                         | 5                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| New York, N. Y.....                  |                 | 365             | 54                      | 73.0                         | -0.1                      | 93               | 7     | 56              | 19    | 23                       | 6.99  | +2.46                     | 3.66                 | 0                         | 8                            | 10    | 13         | 8                            | sw.       | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....              |                 |                 |                         | 72.0                         | -0.2                      | 101              | 7     | 42              | 18    | 40                       | 5.11  | +0.49                     | 4.07                 | 0                         | 8                            | 18    | 7          | 6                            | sw.       |                                                                                                                          |
| The Southern Interior.               |                 |                 |                         |                              |                           |                  |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belle Plain.....                     | Cape May.....   | 30              | 30                      | 71.3 <sup>a</sup>            | -1.3                      | 100              | 6     | 39              | 19    | 39                       | 2.57  | -1.73                     | 1.31                 | 0                         | 7                            | 12    | 7          | 12                           | sw.       | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Stanley McCool.                                              |
| Bridgeton.....                       | Cumberland..... | 30              | 43                      | 74.8                         | -0.2                      | 100              | 6†    | 50              | 19    | 31                       | 4.67  | +0.08                     | 3.20                 | 0                         | 7                            | 27    | 2          | 2                            | sw.       |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 38                      | 74.6 <sup>a</sup>            | +0.4                      | 99               | 6     | 50              | 19    | 36                       | 4.69  | -0.76                     | 2.08                 | 0                         | 7                            | 25    | 3          | 3                            | s.        |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 28                      | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103             | 25                      | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | 3.66  | -0.32                     | 2.07                 | 0                         | 4                            | 16    | 12         | 3                            | sw.       | Charles M. Phillips.<br>E. H. Savage, Jr.<br>Frank M. Lawrence.<br>James M. Armstrong.                                   |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Indian Mills†.....                   | Burlington..... | 76              | 35                      | 72.6                         | 0.0                       | 102              | 6     | 44              | 19    | 28                       | 4.85  | -1.08                     | 2.59                 | 0                         | 5                            | 13    | 12         | 6                            | sw.       |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54              | 20                      | 72.0                         | +0.9                      | 98               | 9     | 44              | 19    | 37                       | 5.32  | -0.73                     | 3.10                 | 0                         | 9                            | 16    | 8          | 7                            | sw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                      | Burlington..... | 75              | 61                      | 74.0                         | +1.4                      | 98               | 6†    | 48              | 19    | 33                       | 4.01  | -0.88                     | 1.86                 | 0                         | 10                           | 16    | 10         | 5                            | nw.       |                                                                                                                          |
| Northfield†.....                     | Atlantic.....   | 25              | 17                      | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | 3.67  | -1.26                     | 1.93                 | 0                         | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville.....                   | Atlantic.....   | 26              | 26                      | 71.0                         | .....                     | 93               | 7     | 46              | 19    | 32                       | 3.59  | -1.34                     | 1.70                 | 0                         | 8                            | 14    | 16         | 1                            | sw.       |                                                                                                                          |
| Runyon.....                          | Middlesex.....  | 18              | .....                   | 70.6 <sup>b</sup>            | .....                     | 98               | 6†    | 38              | 19    | 41                       | 9.48  | .....                     | 4.35                 | 0                         | 5                            | 19    | 8          | 4                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes                              |
| Trenton.....                         | Mercer.....     | 190             | 52                      | 73.4                         | +0.4                      | 97               | 6     | 54              | 19    | 28                       | 5.87  | +0.50                     | 3.52                 | 0                         | 8                            | 12    | 12         | 7                            | sw.       |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 31                      | .....                        | .....                     | .....            | ..... | .....           | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 55                      | 75.2                         | +1.5                      | 101              | 6     | 50              | 19    | 32                       | 4.08  | -0.73                     | 2.01                 | 0                         | 6                            | 21    | 7          | 3                            | sw.       |                                                                                                                          |
| Philadelphia, Pa.....                |                 | 117             | 54                      | 75.0                         | +0.2                      | 96               | 6     | 59              | 15    | 24                       | 3.77  | -0.84                     | 2.36                 | 0                         | 9                            | 9     | 11         | 11                           | sw.       | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....              |                 |                 |                         | 73.0                         | +0.4                      | 102              | 6     | 38              | 19    | 41                       | 4.70  | -0.75                     | 4.35                 | 0                         | 7                            | 17    | 9          | 5                            | sw.       |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |                  |       |                 |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 35                      | 70.4 <sup>a</sup>            | -1.4                      | 92               | 7     | 50              | 2†    | 32                       | 3.09  | -1.97                     | 2.12                 | 0                         | 7                            | 22    | 6          | 3                            | ne.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 50                      | 72.6                         | +0.1                      | 88               | 28    | 57              | 19    | 20                       | 4.38  | +0.08                     | 2.27                 | 0                         | 8                            | 17    | 6          | 8                            | s.        |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 40                      | 73.6                         | +0.2                      | 91               | 28    | 57              | 15    | 21                       | 3.60  | -0.66                     | 1.55                 | 0                         | 7                            | 16    | 9          | 6                            | s.        |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 17                      | 71.5                         | +0.5                      | 98               | 7     | 52              | 19    | 25                       | 3.57  | -2.56                     | 2.05                 | 0                         | 4                            | 18    | 6          | 7                            | sw.       |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 26                      | 72.8                         | 0.0                       | 93               | 7     | 60              | 19    | 21                       | 5.04  | +0.50                     | 2.96                 | 0                         | 5                            | 12    | 13         | 6                            | s.        |                                                                                                                          |
| Means and extremes.....              |                 |                 |                         | 72.2                         | -0.1                      | 98               | 7     | 50              | 2†    | 32                       | 3.94  | -0.92                     | 2.96                 | 0                         | 6                            | 17    | 8          | 6                            | s.        |                                                                                                                          |
| For the State.....                   |                 |                 |                         | 71.9                         | 0.0                       | 102              | 6     | 38              | 19    | 44                       | 4.40  | -0.50                     | 4.35                 | 0                         | 8                            | 18    | 8          | 5                            | sw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc. T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



Daily Precipitation for August, 1924

| Stations                                   | Drainage Basin  | Day of month |   |     |     |     |     |     |     |     |      |      |      |     |     |    |    |     |     |     |     |     |    |     |     |      |      |      |      |     |    |    | Total |      |
|--------------------------------------------|-----------------|--------------|---|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|----|----|-----|-----|-----|-----|-----|----|-----|-----|------|------|------|------|-----|----|----|-------|------|
|                                            |                 | 1            | 2 | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11   | 12   | 13  | 14  | 15 | 16 | 17  | 18  | 19  | 20  | 21  | 22 | 23  | 24  | 25   | 26   | 27   | 28   | 29  | 30 | 31 |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |     |     |     |     |     |     |     |      |      |      |     |     |    |    |     |     |     |     |     |    |     |     |      |      |      |      |     |    |    |       |      |
| Belvidere.....                             | Delaware.....   |              |   |     |     | .06 |     | .15 |     | T.  |      |      | 2.25 | .07 | .23 |    |    | .11 |     |     | .11 |     |    |     |     |      |      | .09  |      | .02 |    |    |       | 3.09 |
| Charlotteburg.....                         | Passaic.....    |              |   |     |     | .11 |     | .02 |     |     |      |      | .18  |     |     |    |    |     |     | .05 | .08 |     |    |     |     | *    | 1.38 |      |      |     |    |    | 1.82  |      |
| Culvers Lake.....                          | Delaware.....   |              |   |     |     | .20 | .05 |     |     |     |      |      | 2.22 |     | .04 |    |    | .19 |     |     | .02 | .35 |    | .02 |     |      | .03  | .11  |      |     |    |    | 3.23  |      |
| Dover.....                                 | Passaic.....    |              |   |     |     | .27 |     | .04 |     | .17 |      |      | 2.06 |     | .04 |    |    | .05 |     |     |     | .17 |    |     |     | *    | .48  |      | .03  |     |    |    |       | 3.31 |
| Layton.....                                | Delaware.....   |              |   |     |     |     |     | .04 |     |     |      |      | 1.88 | .06 | .03 |    |    | .13 |     |     |     |     |    |     |     | .12  | .22  | .06  |      |     |    |    | 2.54  |      |
| Newton.....                                | Delaware.....   |              |   |     |     | .44 |     |     |     |     |      |      | 2.02 |     | .10 |    |    | .22 |     |     | .05 | .06 |    |     |     |      |      |      |      |     |    |    | 2.89  |      |
| Phillipsburg.....                          | do.....         |              |   |     |     |     |     | .33 |     |     |      |      | 1.94 |     |     |    |    | .16 |     |     | .10 |     |    |     |     |      | .15  |      |      |     |    |    | 2.68  |      |
| Sussex.....                                | Hudson.....     |              |   |     |     |     |     | .05 |     |     |      |      | 2.90 |     | .02 |    |    | .06 |     |     |     |     |    | .04 |     | .02  | .03  |      |      |     |    |    | 3.12  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |     |     |     |     |     |     |     |      |      |      |     |     |    |    |     |     |     |     |     |    |     |     |      |      |      |      |     |    |    |       |      |
| Bergen Point**.....                        | Coast.....      |              |   |     |     | .15 |     | T.  |     | .03 | T.   |      | 2.15 |     |     |    |    | T.  |     |     | .01 | .16 |    | T.  |     | 1.30 | 1.70 |      |      |     |    |    | 5.50  |      |
| Boonton   .....                            | Passaic.....    | T.           |   |     |     | .18 |     | .03 |     | .51 |      | .69  | 1.13 |     |     |    |    | .01 |     | .04 | .03 |     |    |     |     |      | 1.04 | .07  | .09  |     |    |    | 3.82  |      |
| Chatham   .....                            | do.....         |              |   |     |     | .52 |     | .91 |     | .33 |      | .91  | 1.23 |     |     |    |    | .05 |     | .11 |     |     |    |     |     |      | 2.03 | .31  |      |     |    |    | 6.40  |      |
| Elizabeth.....                             | Coast.....      |              |   |     |     | .04 |     | .20 |     | .10 | T.   | 2.52 | T.   |     |     |    |    |     |     | .02 | T.  |     |    |     |     | T.   | 3.15 | T.   |      |     |    |    | 6.03  |      |
| Flemington.....                            | Raritan.....    | T.           |   |     |     |     |     | .09 |     | T.  |      | .02  | 2.31 |     |     |    |    | T.  |     |     | .04 |     |    | T.  |     |      | .19  | .34  |      |     |    |    | 2.99  |      |
| Highwood.....                              | Hackensack..... |              |   |     |     | .19 | T.  | .24 |     | .63 |      | 1.88 |      |     |     |    |    | .02 |     |     | .02 | .04 |    |     |     |      | .10  | 2.48 |      | .03 |    |    | 5.63  |      |
| Jersey City.....                           | Coast.....      |              |   |     |     | .07 |     | T.  |     | .01 |      | 3.00 |      |     |     |    |    | .10 |     |     | .14 |     |    |     |     | *    | 3.41 |      |      |     |    |    | 6.73  |      |
| Lambertville.....                          | Delaware.....   | .14          |   |     |     | T.  |     | .02 |     | T.  | .01  | .06  | 2.48 |     |     |    |    | .07 |     |     | .09 | .01 |    | T.  |     | .40  | .88  |      |      |     |    |    | 4.16  |      |
| Little Falls.    .....                     | Passaic.....    | .32          |   |     |     | .34 |     | .04 |     | .60 |      | .58  | 1.12 |     |     |    |    | .03 |     | .02 | .03 |     |    |     |     |      | 1.33 | .48  | .03  |     |    |    | 4.92  |      |
| New Brunswick.....                         | Raritan.....    |              |   |     |     | .17 |     |     |     |     | .02  | 4.07 |      |     |     |    |    | .38 | .03 |     | .02 |     |    |     |     | .23  | 1.98 |      |      |     |    |    | 6.90  |      |
| New Milford.....                           | Hackensack..... |              |   |     |     | .37 |     | .03 |     | .87 |      | 1.51 |      |     |     |    |    |     |     | .02 | .04 |     |    |     |     |      | .15  | 1.79 |      |     |    |    | 4.78  |      |
| Paterson.....                              | Passaic.....    |              |   |     |     | .42 | T.  |     | .05 | .08 | .40  | 1.55 |      |     |     |    |    | .02 | .02 |     | .03 | .25 |    |     |     | .01  | 2.10 |      | .07  |     |    |    | 5.00  |      |
| Plainfield.....                            | Raritan.....    |              |   |     |     | .21 |     | .19 |     | .25 |      | 2.50 |      |     |     |    |    | T.  |     |     | T.  |     |    |     |     | *    | 2.22 |      |      |     |    |    | 5.37  |      |
| Somerville.....                            | Raritan.....    |              |   |     |     | T.  |     | .12 |     | .79 |      | T.   | 2.39 |     |     |    |    | .08 |     |     | T.  |     |    |     |     |      | .24  | 1.08 |      |     |    |    | 4.70  |      |
| South Orange.....                          | Rahway.....     |              |   |     |     | .23 |     | .05 |     | .23 |      | 1.98 |      |     |     |    |    |     |     | *   | .37 |     |    |     |     | .33  | 2.41 |      |      |     |    |    | 5.60  |      |
| Woodcliff Lake.**                          | Hackensack..... |              |   |     |     |     |     | .05 |     | .15 |      | 1.50 |      |     |     |    |    |     |     |     | .05 |     |    |     |     |      | 1.45 |      |      |     |    |    | 3.20  |      |
| New York, N. Y.**                          | Coast.....      |              |   |     |     | .04 |     | .02 |     | .02 |      | 3.02 | T.   |     |     |    |    | .09 |     |     | .14 | T.  |    |     |     | 1.29 | 2.37 |      |      |     |    |    | 6.99  |      |
| <i>The Southern Interior.</i>              |                 |              |   |     |     |     |     |     |     |     |      |      |      |     |     |    |    |     |     |     |     |     |    |     |     |      |      |      |      |     |    |    |       |      |
| Belle Plain.....                           | Tuckahoe.....   |              |   |     | .08 |     |     |     | .13 |     | .25  |      | .57  |     |     |    |    |     |     |     |     |     |    |     | .07 | .16  | 1.31 |      |      |     |    |    | 2.57  |      |
| Bridgeton.....                             | Coast.....      |              |   |     | .05 |     |     | .10 |     | .10 | .12  |      |      |     |     |    |    |     |     |     |     |     |    |     |     | .50  | 2.70 |      |      |     |    |    | 4.67  |      |
| Burlington.....                            | Delaware.....   | .08          |   |     |     |     |     |     | .09 |     | .12  |      | 2.00 |     |     |    |    |     |     | .32 |     |     |    |     |     | *    | 2.08 |      |      |     |    |    | 4.69  |      |
| Clayton.....                               | Delaware.....   |              |   |     |     |     |     |     |     |     |      |      |      |     |     |    |    |     |     |     |     |     |    |     |     |      |      |      |      |     |    |    |       |      |
| Hammonton.....                             | Mullica.....    |              |   |     |     | .22 |     |     |     |     | T.   | 1.26 |      |     |     |    |    | T.  | T.  |     |     |     |    |     |     |      | .11  | 2.07 |      |     |    |    | 3.66  |      |
| Hightstown.....                            | Raritan.....    | .18          |   |     |     | .20 |     |     |     |     |      | 3.30 |      |     |     |    |    | .04 |     |     |     |     |    |     |     |      |      |      |      |     |    |    |       |      |
| Imlaystown.....                            | Delaware.....   | .04          |   |     |     | .40 |     |     | .08 |     | 1.76 |      |      |     |     |    |    | .03 | .10 |     |     |     |    |     |     |      |      |      |      |     |    |    |       |      |
| Indian Mills.....                          | Mullica.....    |              |   |     |     |     |     | .07 |     |     | .30  | 1.89 |      |     |     |    |    | T.  |     |     | T.  |     |    |     |     |      | .16  | 2.43 |      |     |    |    | 4.85  |      |
| Lakewood.....                              | Metedeconk..... | .22          |   |     |     |     | .12 |     | .04 |     | 1.75 |      |      |     |     |    |    | T.  |     |     | .04 |     |    |     |     | .05  | .40  | 2.70 |      |     |    |    | 5.32  |      |
| Moorestown.....                            | Delaware.....   | .21          |   |     |     | T.  | .41 |     | .35 | .02 | 1.10 |      |      |     |     |    |    | .04 |     |     | .01 |     |    |     |     | .01  | .31  | 1.55 |      |     |    |    | 4.01  |      |
| Northfield.....                            | Coast.....      | T.           |   | .04 |     |     | .05 |     | .13 |     | 1.04 |      |      |     |     |    |    |     | .06 |     | .01 |     |    |     |     | .11  | .30  | 1.93 |      |     |    |    | 3.67  |      |
| Pleasantville   .....                      | Coast.....      |              |   |     |     |     | .03 |     |     |     | .15  | .78  | .25  |     |     |    |    |     | .09 |     |     | T.  |    |     |     | .04  | .09  | 1.70 | .46  |     |    |    | 3.69  |      |
| Runyon.....                                | Coast.....      | .09          |   |     |     | .94 |     |     |     |     | 4.35 |      |      |     |     |    |    |     |     |     | .04 |     |    |     |     |      |      | 4.06 |      |     |    |    | 9.48  |      |
| Trenton***.....                            | Delaware.....   | .13          |   |     |     | .08 |     | .05 |     |     | 3.52 | T.   |      |     |     |    |    | .28 |     |     | .03 |     |    | T.  |     | 1.03 | .75  |      |      |     |    |    | 5.87  |      |
| Tuckerton.....                             | Coast.....      |              |   |     |     |     |     | .19 |     | .05 | 1.28 |      |      |     |     |    |    |     | .05 |     |     |     |    |     |     | .50  | 2.01 |      |      |     |    |    | 4.08  |      |
| Vineland.....                              | Maurice.....    |              |   |     |     |     |     | .07 |     | .03 | .07  |      | .97  |     |     |    |    | .03 |     |     |     |     |    |     |     |      | 1.75 | .61  |      |     |    |    | 3.77  |      |
| Philadelphia, Pa.....                      | Delaware.....   | .21          |   |     | T.  |     |     |     | .07 |     |      |      |      |     |     |    |    |     |     |     | .03 |     |    |     |     |      |      |      |      |     |    |    |       |      |
| <i>The Sea Coast.</i>                      |                 |              |   |     |     |     |     |     |     |     |      |      |      |     |     |    |    |     |     |     |     |     |    |     |     |      |      |      |      |     |    |    |       |      |
| Asbury Park.....                           | Coast.....      | .05          |   |     |     |     |     | .06 | .01 | T.  |      | .80  |      |     |     |    |    | .05 |     |     |     |     |    |     |     |      |      | .12  | 2.00 |     |    |    | 3.09  |      |
| Atlantic City***.....                      | do.....         | T.           |   |     | .01 |     |     | .03 |     | .23 |      | 1.35 |      |     |     |    |    | T.  |     |     | .01 |     |    |     |     | .06  | .63  | 2.06 |      |     |    |    | 4.38  |      |
| Cape May City.....                         | do.....         | T.           |   |     | .09 |     |     | T.  | .11 |     | .17  |      | 1.42 |     |     |    |    |     |     |     | T.  |     |    |     |     | .10  | .16  | 1.55 |      |     |    |    | 3.60  |      |
| Long Branch**.....                         | do.....         |              |   |     |     | T.  |     | .14 |     | T.  |      | .85  |      |     |     |    |    | T.  |     |     | T.  |     |    |     |     | T.   |      | .53  | 2.05 |     |    |    | 3.57  |      |
| Sandy Hook***.....                         | do.....         | T.           |   |     | T.  | T.  |     | .18 |     |     |      | 1.80 |      |     |     |    |    | .10 |     |     |     |     |    | T.  |     |      | .74  | 2.22 |      |     |    |    | 5.04  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                                |                                        | Sun-<br>shine                      |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-----------------------------------------|----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity.<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                         |                                        |                                    |
| Atlantic City.....    | 29.98        | 30.27   | 3    | 29.30  | 26   | 14              | 72             | u         | 26   | 77                                      | 80                                     | 65                                 |
| Cape May City.....    | 30.03        | 30.29   | 4    | 29.42  | 26   | 6               | 23             | n.        | 26   | 82                                      | 84                                     | .....                              |
| Long Branch.....      |              |         |      |        |      |                 | 48             | ne.       | 26   |                                         |                                        |                                    |
| New York, N. Y.....   | 29.98        | 30.31   | 4    | 29.38  | 26   | 14              | 56             | w.        | 7    | 77                                      | 66                                     | 70                                 |
| Philadelphia, Pa..... | 30.00        | 30.28   | 3    | 29.46  | 26   | 8               | 32             | ne.       | 26   | 74                                      | 66                                     | 66                                 |
| Sandy Hook.....       | 29.98        | 30.29   | 4    | 29.35  | 26   | 13              | 58             | n.        | 26   | 76                                      | 75                                     | 74                                 |
| Trenton.....          | 29.98        | 30.29   | 4    | 29.45  | 26   | 9               | 38             | n.        | 26   | 77                                      | 72                                     | 71                                 |



## Daily Temperatures for August, 1924

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7   | 8   | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |
|--------------------------------------|---------|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Belvidere.....                       | Maximum | 76 | 76 | 81 | 81 | 88 | 94  | 94  | 88 | 92 | 85 | 84 | 75 | 81 | 78 | 78 | 80 | 74 | 70 | 75 | 73 | 80 | 81 | 76 | 84 | 78 | 79 | 86 | 86 | 85 | 89 | 91   | 81.9 |
|                                      | Minimum | 60 | 50 | 50 | 58 | 64 | 69  | 69  | 63 | 63 | 56 | 58 | 58 | 55 | 58 | 48 | 54 | 50 | 44 | 60 | 61 | 60 | 62 | 60 | 60 | 66 | 66 | 53 | 55 | 56 | 56 | 57.4 |      |
| Charlotteburg.....                   | Maximum | 79 | 79 | 81 | 78 | 91 | 94  | 95  | 89 | 88 | 90 | 79 | 80 | 75 | 80 | 79 | 77 | 71 | 76 | 73 | 79 | 79 | 78 | 82 | 78 | 78 | 85 | 84 | 86 | 95 | 93 | 82.4 |      |
|                                      | Minimum | 56 | 43 | 41 | 52 | 62 | 66  | 65  | 51 | 55 | 54 | 59 | 47 | 57 | 42 | 42 | 55 | 51 | 40 | 55 | 64 | 49 | 50 | 60 | 62 | 66 | 47 | 65 | 52 | 54 | 51 | 54.0 |      |
| Dover.....                           | Maximum | 79 | 80 | 79 | 81 | 91 | 93  | 95  | 92 | 94 | 86 | 86 | 78 | 81 | 81 | 82 | 80 | 75 | 71 | 78 | 71 | 83 | 80 | 75 | 83 | 77 | 76 | 87 | 88 | 88 | 91 | 95   | 83.1 |
|                                      | Minimum | 57 | 49 | 48 | 55 | 67 | 67  | 70  | 65 | 59 | 64 | 58 | 52 | 57 | 49 | 61 | 49 | 46 | 59 | 59 | 54 | 61 | 58 | 64 | 51 | 62 | 56 | 57 | 60 | 57 | 60 | 55.9 |      |
| Layton.....                          | Maximum | 81 | 79 | 82 | 81 | 91 | 101 | 98  | 90 | 95 | 81 | 83 | 73 | 84 | 78 | 81 | 82 | 74 | 70 | 78 | 70 | 81 | 81 | 75 | 86 | 75 | 79 | 86 | 86 | 85 | 93 | 98   | 83.1 |
|                                      | Minimum | 42 | 44 | 52 | 68 | 65 | 65  | 59  | 57 | 56 | 54 | 58 | 56 | 58 | 42 | 47 | 61 | 45 | 39 | 58 | 62 | 50 | 61 | 63 | 64 | 63 | 48 | 63 | 52 | 54 | 54 | 55.3 |      |
| Newton.....                          | Maximum | 75 | 80 | 75 | 85 | 90 | 97  | 85  | 90 | 84 | 70 | 82 | 78 | 79 | 82 | 75 | 78 | 72 | 82 | 80 | 84 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88   | 88.3 |
|                                      | Minimum | 48 | 58 | 64 | 70 | 75 | 65  | 65  | 65 | 56 | 59 | 52 | 58 | 50 | 53 | 60 | 50 | 48 | 58 | 63 | 62 | 65 | 70 | 62 | 65 | 70 | 60 | 55 | 57 | 57 | 57 | 59.0 |      |
| Phillipsburg.....                    | Maximum | 80 | 79 | 82 | 84 | 90 | 100 | 97  | 88 | 86 | 86 | 81 | 83 | 80 | 81 | 82 | 76 | 73 | 79 | 75 | 83 | 83 | 77 | 83 | 83 | 88 | 88 | 88 | 88 | 88 | 88 | 88   | 88.4 |
|                                      | Minimum | 53 | 53 | 53 | 53 | 68 | 70  | 67  | 62 | 62 | 62 | 61 | 56 | 61 | 52 | 54 | 62 | 52 | 54 | 62 | 54 | 62 | 54 | 60 | 66 | 64 | 62 | 60 | 56 | 57 | 57 | 59.7 |      |
| Sussex.....                          | Maximum | 78 | 78 | 78 | 78 | 92 | 96  | 96  | 89 | 94 | 89 | 85 | 73 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83   | 83.8 |
|                                      | Minimum | 61 | 42 | 42 | 42 | 42 | 42  | 42  | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 54.9 |      |
| The Red Sandstone Plain.             |         |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Bergen Point.....                    | Maximum | 75 | 85 | 81 | 82 | 93 | 96  | 97  | 91 | 97 | 86 | 85 | 77 | 77 | 80 | 81 | 81 | 81 | 72 | 79 | 75 | 82 | 79 | 76 | 82 | 79 | 80 | 87 | 86 | 87 | 92 | 94   | 83.7 |
|                                      | Minimum | 68 | 60 | 60 | 64 | 64 | 64  | 64  | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64.5 |      |
| Boonton§§.....                       | Maximum | 79 | 80 | 80 | 81 | 89 | 96  | 94  | 90 | 92 | 85 | 84 | 70 | 81 | 79 | 80 | 80 | 74 | 71 | 78 | 74 | 83 | 80 | 76 | 83 | 79 | 80 | 85 | 85 | 89 | 91 | 82.5 |      |
|                                      | Minimum | 58 | 49 | 47 | 51 | 66 | 72  | 67  | 67 | 67 | 57 | 62 | 51 | 61 | 48 | 47 | 58 | 50 | 45 | 57 | 63 | 54 | 53 | 56 | 61 | 65 | 51 | 62 | 54 | 54 | 57 | 56.8 |      |
| Elizabeth.....                       | Maximum | 86 | 81 | 81 | 84 | 94 | 100 | 101 | 96 | 98 | 91 | 87 | 80 | 85 | 84 | 85 | 79 | 74 | 79 | 76 | 83 | 83 | 77 | 85 | 77 | 83 | 88 | 89 | 88 | 93 | 94 | 94   | 87.1 |
|                                      | Minimum | 65 | 56 | 55 | 56 | 63 | 70  | 73  | 67 | 62 | 66 | 65 | 55 | 62 | 58 | 53 | 58 | 54 | 54 | 56 | 54 | 57 | 56 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60   | 60.0 |
| Flemington.....                      | Maximum | 85 | 82 | 82 | 84 | 93 | 99  | 99  | 92 | 94 | 86 | 81 | 83 | 79 | 84 | 83 | 77 | 74 | 79 | 76 | 83 | 83 | 77 | 85 | 77 | 83 | 88 | 89 | 90 | 93 | 98 | 98   | 85.5 |
|                                      | Minimum | 62 | 53 | 53 | 58 | 66 | 71  | 72  | 67 | 62 | 65 | 60 | 61 | 56 | 61 | 53 | 63 | 62 | 52 | 48 | 61 | 65 | 56 | 60 | 62 | 64 | 64 | 64 | 64 | 64 | 64 | 64   | 60.0 |
| Highwood.....                        | Maximum | 76 | 77 | 77 | 81 | 87 | 90  | 95  | 89 | 93 | 83 | 81 | 73 | 77 | 76 | 78 | 79 | 73 | 72 | 76 | 73 | 77 | 76 | 75 | 80 | 77 | 78 | 75 | 83 | 83 | 88 | 89   | 80.2 |
|                                      | Minimum | 60 | 50 | 51 | 56 | 67 | 68  | 74  | 66 | 60 | 60 | 62 | 55 | 60 | 49 | 51 | 60 | 51 | 46 | 61 | 63 | 55 | 57 | 62 | 65 | 66 | 64 | 65 | 66 | 66 | 66 | 66   | 59.2 |
| Jersey City.....                     | Maximum | 77 | 79 | 80 | 82 | 90 | 96  | 97  | 90 | 95 | 88 | 87 | 76 | 80 | 81 | 80 | 80 | 76 | 73 | 78 | 77 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80   | 80.2 |
|                                      | Minimum | 61 | 58 | 60 | 67 | 67 | 73  | 75  | 71 | 70 | 70 | 68 | 62 | 60 | 63 | 61 | 63 | 66 | 58 | 56 | 65 | 68 | 66 | 64 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68   | 83.2 |
| Lambertville.....                    | Maximum | 76 | 77 | 83 | 77 | 89 | 97  | 95  | 87 | 94 | 89 | 84 | 72 | 81 | 77 | 80 | 81 | 77 | 69 | 77 | 74 | 78 | 81 | 75 | 83 | 76 | 79 | 85 | 85 | 84 | 88 | 91   | 82.0 |
|                                      | Minimum | 61 | 53 | 55 | 57 | 65 | 72  | 74  | 68 | 65 | 67 | 60 | 61 | 58 | 58 | 53 | 56 | 62 | 52 | 50 | 62 | 58 | 60 | 60 | 64 | 66 | 65 | 65 | 65 | 65 | 65 | 65   | 61.1 |
| Little Falls§§.....                  | Maximum | 79 | 80 | 81 | 85 | 93 | 96  | 97  | 92 | 95 | 88 | 85 | 68 | 82 | 82 | 81 | 75 | 73 | 79 | 74 | 82 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80   | 84.0 |
|                                      | Minimum | 60 | 50 | 50 | 55 | 66 | 68  | 71  | 68 | 60 | 65 | 60 | 63 | 55 | 58 | 50 | 50 | 59 | 51 | 46 | 60 | 64 | 55 | 57 | 59 | 65 | 65 | 65 | 65 | 65 | 65 | 65   | 58.7 |
| New Brunswick.....                   | Maximum | 83 | 77 | 79 | 82 | 89 | 98  | 98  | 98 | 98 | 98 | 85 | 81 | 80 | 78 | 79 | 80 | 77 | 73 | 76 | 76 | 81 | 80 | 76 | 82 | 78 | 81 | 85 | 85 | 85 | 85 | 85   | 83.1 |
|                                      | Minimum | 61 | 56 | 53 | 58 | 67 | 71  | 75  | 70 | 63 | 68 | 63 | 64 | 57 | 61 | 52 | 42 | 51 | 53 | 58 | 58 | 59 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65   | 60.8 |
| Paterson.....                        | Maximum | 76 | 80 | 81 | 85 | 90 | 96  | 98  | 92 | 97 | 86 | 85 | 77 | 82 | 82 | 80 | 83 | 75 | 79 | 74 | 83 | 81 | 81 | 85 | 81 | 79 | 89 | 88 | 86 | 92 | 94 | 94   | 84.3 |
|                                      | Minimum | 61 | 54 | 60 | 58 | 68 | 72  | 74  | 70 | 65 | 67 | 64 | 62 | 57 | 63 | 54 | 55 | 61 | 55 | 62 | 62 | 66 | 60 | 61 | 62 | 68 | 66 | 68 | 68 | 68 | 68 | 68   | 62.3 |
| Plainfield.....                      | Maximum | 77 | 79 | 80 | 82 | 89 | 97  | 97  | 90 | 96 | 88 | 88 | 77 | 80 | 82 | 81 | 80 | 75 | 74 | 78 | 77 | 80 | 79 | 76 | 84 | 80 | 81 | 86 | 90 | 86 | 91 | 93   | 83.6 |
|                                      | Minimum | 60 | 52 | 49 | 54 | 62 | 68  | 71  | 69 | 68 | 68 | 64 | 59 | 57 | 60 | 58 | 64 | 52 | 59 | 64 | 60 | 60 | 64 | 63 | 60 | 64 | 60 | 64 | 60 | 61 | 60 | 60   | 60.8 |
| Somerville.....                      | Maximum | 84 | 76 | 78 | 80 | 88 | 96  | 96  | 96 | 96 | 88 | 80 | 78 | 78 | 80 | 80 | 76 | 74 | 75 | 76 | 75 | 74 | 75 | 76 | 75 | 74 | 78 | 82 | 83 | 83 | 85 | 80   | 80.4 |
|                                      | Minimum | 61 | 50 | 52 | 57 | 64 | 70  | 71  | 66 | 61 | 66 | 59 | 64 | 55 | 60 | 52 | 51 | 48 | 45 | 61 | 63 | 59 | 62 | 66 | 66 | 64 | 62 | 67 | 66 | 66 | 66 | 66   | 59.2 |
| South Orange.....                    | Maximum | 78 | 77 | 78 | 82 | 89 | 95  | 95  | 95 | 95 | 86 | 83 | 69 | 78 | 77 | 78 | 77 | 73 | 75 | 74 | 80 | 79 | 75 | 80 | 80 | 80 | 84 | 84 | 82 | 88 | 89 | 89   | 81.3 |
|                                      | Minimum | 60 | 57 | 54 | 59 | 67 | 72  | 73  | 70 | 65 | 68 | 63 | 58 | 58 | 55 | 61 | 55 | 53 | 60 | 68 | 60 | 68 | 70 | 68 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65   | 62.6 |
| New York, N. Y.....                  | Maximum | 75 | 76 | 76 | 78 | 88 | 92  | 93  | 87 | 92 | 85 | 83 | 77 | 78 | 77 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74   | 80.4 |
|                                      | Minimum | 62 | 58 | 60 | 67 | 67 | 74  | 75  | 72 | 71 | 71 | 68 | 62 | 61 | 63 | 61 | 64 | 66 | 58 | 65 | 65 | 65 | 64 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68   | 65.5 |
| The Southern Interior.               |         |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Belle Plain.....                     | Maximum | 82 | 78 | 77 | 84 | 95 | 100 | 99  | 94 | 91 | 86 | 88 | 85 | 77 | 83 | 82 | 86 | 77 | 81 | 81 | 89 | 79 | 82 | 81 | 82 | 83 | 87 | 91 | 90 | 89 | 90 | 85.6 |      |
|                                      | Minimum | 55 | 48 | 55 | 54 | 59 | 69  | 76  | 63 | 59 | 66 | 61 | 66 | 55 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXIX.

SEPTEMBER, 1924.

No. 9

### GENERAL SUMMARY.

The month opened with maxima well up in the 90's and it continued warm on the 2d. Warmth was slightly above normal on the 13th, 28th and 29th. The remainder of the month was cool, so that the mean monthly temperature was one of the lowest of September records. In 1887 and in 1917 it was a fraction of a degree cooler. There were several days when the minima reached the low record of the season, and frosts, especially in the cranberry bogs were of frequent occurrence, and for this reason it was a particularly hazardous season for agriculture in locations easily susceptible to frost formation. It was very uniformly fortunate, however, that there was little or no frost damage.

Sunshine was deficient, and the rapid curing of late cuttings of grass and alfalfa and the maturing of corn were substantially delayed. Rain was slightly more frequent than usual, and occurred in generous volume, except in the district from the Monmouth County shore to New York Harbor. It was the rainiest September since 1907, and has been appreciably exceeded only in four Septembers since 1885. It was of great enough volume to bring the year's fall to normal in extreme northern regions, and substantially increased the surplus in the interior of the state. The rainstorm at the close of the month in extreme northwestern sections, amounted to nearly 5.8 inches in about 24 hours, and this, with like heavy rain in adjacent territory of New York and Pennsylvania started a flood in the Delaware River which indicated a threatening aspect by midnight at the close of the month.

The soil was mostly in fine condition for fall plowing and seeding, and weather conditions interfered but little with outdoor work.

Storm warnings were displayed along shore on the 5th, 9th, 16th, 29th, and 30th.

### TEMPERATURE.

The mean monthly temperature of the State, as deduced from observations of 34 stations, was 62.2°, which was 3.4° below the normal. The highest temperature was 99° at Moorestown on the 1st, and the lowest, 29° at Charlotteburg on the 26th. The highest monthly mean temperature was 65.9° at Vineland, and the lowest, 58.1° at Charlotteburg. The greatest daily range of temperature was 42° at Runyon on the 12th.

The temperature departure from the normal for the year 1924 to date, by sections, is: The Highlands, -1.4°; Red Sandstone Plain, -1.3°; Southern Interior, -1.2°; Sea Coast, -0.7°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 42 stations, was 5.42 inches, which was 1.83 inches above the normal. The greatest monthly rainfall was 8.44 inches at Layton, and the least, 2.47 inches at Sandy Hook. The greatest amount of rain in any 24 consecutive hours was 5.24 inches at Layton on the 30th. The mean of the number of days on which .01 inch or more of rain fell was 10, or 2 more

than the normal.

The precipitation departure from the normal for the year 1924 to date, by sections, is: The Highlands, -46.01 inch; Red Sandstone Plain, +5.11 inches; Southern Interior, +6.79 inches; Sea Coast, -1.82 inches.

### WIND.

The prevailing wind direction was from the southwest, with an average velocity of 14 miles per hour, which was 2 miles above the normal. The highest velocity, sustained for 5 consecutive minutes, was 82 miles per hour from the southeast on the 30th at Atlantic City.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 less than the normal; partly cloudy, 8, or, 1 less than the normal; cloudy, 9, or 2 more than the normal. The per cent of possible sunshine was 57, which was 11 per cent below the normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.1 feet, and the highest, 4.7 feet on the 30th. At Trenton the mean stage was 0.2 foot, which was 0.9 foot below the normal. The highest stage, 1.1 feet, occurred on the 13th.

### ERRATA.

August, 1924: Atlantic City, greatest 24-hour precipitation should read 2.66 inches instead of 2.27 inches. Bergen Point, rainfall on the 12th should read 2.22 inches instead of 2.15 inches, and on the 25th 1.36 inches instead of 1.30 inches; greatest 24 hour rainfall, 3.06 instead of 3.00; monthly total rainfall, 5.63 instead of 5.50.

### COMPARATIVE DATA FOR SEPTEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                       |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|-----------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec |
| 1885..... | 64.2        | 93      | 38     | 0.83          | 1.69     | 0.25  | .....      | .....         | .....  | .....                 |
| 1886..... | 66.9        | 95      | 36     | 1.13          | 1.76     | 0.86  | .....      | .....         | .....  | .....                 |
| 1887..... | 61.6        | 90      | 30     | 3.66          | 6.25     | 1.62  | .....      | .....         | .....  | 7                     |
| 1888..... | 63.1        | 84      | 29     | 7.09          | 10.65    | 3.75  | .....      | .....         | 14     | 12                    |
| 1889..... | 64.8        | 90      | 34     | 8.36          | 13.13    | 3.17  | .....      | .....         | 14     | 14                    |
| 1890..... | 64.4        | 91      | 33     | 4.75          | 8.61     | 2.59  | 10         | 10            | 10     | 10                    |
| 1891..... | 68.7        | 95      | 39     | 2.46          | 5.91     | 0.90  | 16         | 9             | 5      | 6                     |
| 1892..... | 64.2        | 90      | 33     | 1.81          | 3.78     | 1.02  | 15         | 11            | 4      | 6                     |
| 1893..... | 62.7        | 90      | 31     | 3.20          | 5.38     | 1.93  | 12         | 10            | 8      | 8                     |
| 1894..... | 68.8        | 97      | 31     | 7.46          | 11.65    | 3.69  | 10         | 10            | 10     | 8                     |
| 1895..... | 69.7        | 109     | 29     | 1.07          | 2.71     | 0.22  | 17         | 10            | 3      | 5                     |
| 1896..... | 65.1        | 95      | 30     | 4.37          | 8.74     | 2.26  | 19         | 7             | 4      | 5                     |
| 1897..... | 65.5        | 99      | 30     | 1.65          | 3.97     | 0.21  | 19         | 7             | 4      | 5                     |
| 1898..... | 68.6        | 100     | 31     | 2.00          | 3.87     | 0.65  | 17         | 8             | 5      | 6                     |
| 1899..... | 64.4        | 93      | 30     | 5.88          | 9.61     | 2.88  | 15         | 9             | 6      | 9                     |
| 1900..... | 69.9        | 98      | 32     | 2.86          | 7.37     | 1.09  | 14         | 10            | 6      | 6                     |
| 1901..... | 66.8        | 94      | 29     | 3.38          | 6.82     | 1.63  | 15         | 9             | 6      | 10                    |
| 1902..... | 64.6        | 93      | 30     | 5.65          | 8.95     | 3.11  | 11         | 7             | 12     | 13                    |
| 1903..... | 65.0        | 92      | 29     | 3.34          | 7.10     | 1.39  | 17         | 8             | 5      | 7                     |
| 1904..... | 64.8        | 93      | 23     | 4.79          | 10.08    | 0.89  | 14         | 10            | 6      | 7                     |
| 1905..... | 65.4        | 90      | 28     | 5.23          | 9.18     | 2.87  | 16         | 7             | 7      | 8                     |
| 1906..... | 68.9        | 94      | 33     | 2.19          | 4.66     | 0.75  | 15         | 9             | 6      | 7                     |
| 1907..... | 67.1        | 92      | 31     | 8.08          | 12.95    | 3.55  | 10         | 8             | 12     | 14                    |
| 1908..... | 65.7        | 90      | 29     | 2.09          | 4.13     | 0.95  | 11         | 10            | 9      | 3                     |
| 1909..... | 64.5        | 89      | 30     | 3.30          | 4.58     | 2.08  | 11         | 10            | 9      | 8                     |
| 1910..... | 67.3        | 97      | 32     | 2.39          | 3.97     | 1.01  | 12         | 10            | 8      | 6                     |
| 1911..... | 66.4        | 90      | 30     | 2.88          | 5.33     | 1.08  | 10         | 12            | 8      | 9                     |
| 1912..... | 65.9        | 87      | 28     | 4.47          | 6.76     | 2.68  | 12         | 7             | 11     | 10                    |
| 1913..... | 64.4        | 96      | 27     | 3.87          | 6.55     | 1.56  | 13         | 8             | 9      | 9                     |
| 1914..... | 64.0        | 99      | 24     | 0.37          | 1.64     | 0.14  | 21         | 6             | 3      | 3                     |
| 1915..... | 68.5        | 97      | 30     | 2.08          | 4.46     | 0.55  | 17         | 9             | 4      | 5                     |
| 1916..... | 65.2        | 98      | 31     | 2.84          | 5.29     | 1.29  | 20         | 7             | 3      | 6                     |
| 1917..... | 61.5        | 87      | 27     | 2.74          | 6.13     | 0.47  | 16         | 7             | 7      | 6                     |
| 1918..... | 62.2        | 90      | 29     | 3.84          | 6.00     | 2.66  | 14         | 8             | 8      | 9                     |
| 1919..... | 65.8        | 96      | 32     | 3.26          | 6.28     | 1.04  | 16         | 6             | 8      | 8                     |
| 1920..... | 66.8        | 90      | 30     | 3.87          | 8.53     | 1.67  | 17         | 8             | 5      | 7                     |
| 1921..... | 70.2        | 99      | 36     | 2.35          | 5.04     | 0.80  | 15         | 8             | 7      | 8                     |
| 1922..... | 66.7        | 95      | 27     | 2.26          | 5.22     | 0.59  | 19         | 5             | 6      | 4                     |
| 1923..... | 67.0        | 90      | 28     | 3.78          | 6.26     | 2.24  | 14         | 8             | 8      | 7                     |
| 1924..... | 62.2        | 99      | 29     | 5.42          | 8.44     | 2.47  | 13         | 8             | 9      | 10                    |



## Climatological Data for September, 1924

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |                 |       |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Prevailing direction of wind | Observers                                                                                                                |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|-----------------|-------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest          | Date  | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy | Cloudy |                              |                                                                                                                          |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 33                      | 59.9                         | -4.8                      | 92      | 1     | 36              | 24    | 36                   | 6.86                     | +3.09                     | 3.88                 | 0                         | 6                            | 14    | 6          | 10     | .....                        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 32                      | 58.1                         | -3.8                      | 98      | 1     | 29              | 26    | 39                   | 7.97                     | +3.55                     | 4.49                 | 0                         | 7                            | 5     | 9          | 16     | w.                           |                                                                                                                          |
| Culvers Lake†.....                   | Sussex.....     | 848             | 23                      | .....                        | .....                     | .....   | ..... | 34              | 25    | .....                | 6.99                     | +2.45                     | 3.65                 | 0                         | 9                            | 14    | 5          | 11     | n.                           |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 40                      | 59.0                         | -3.2                      | 95      | 1     | 35              | 25†   | 37                   | 7.47                     | +3.38                     | 4.66                 | 0                         | 8                            | 5     | 13         | 12     | .....                        |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 23                      | 59.2                         | -3.1                      | 93      | 1     | 32              | 24    | 38                   | 8.44                     | +4.52                     | 5.24                 | 0                         | 11                           | 13    | 4          | 13     | sw.                          | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 41                      | 60.8 <sup>1</sup>            | -2.7                      | 96      | 1     | 37 <sup>2</sup> | 24    | 37 <sup>3</sup>      | 6.11                     | +2.30                     | 3.13                 | 0                         | 7                            | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 41                      | 61.5                         | -3.7                      | 97      | 1     | 40              | 24†   | 35                   | 6.03                     | +2.37                     | 2.64                 | 0                         | 8                            | 14    | 8          | 8      | .....                        |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 30                      | 59.8                         | -4.4                      | 93      | 1     | 33              | 27    | 40                   | 5.93                     | +2.03                     | 3.50                 | 0                         | 9                            | 10    | 8          | 12     | nw.                          |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 59.8                         | -3.7                      | 98      | 1     | 29              | 26    | 40                   | 6.98                     | +2.96                     | 5.24                 | 0                         | 8                            | 11    | 8          | 11     | sw.                          |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Bergen Point†.....                   | Hudson.....     | 37              | 27                      | 63.4                         | -3.0                      | 96      | 1†    | 43              | 11    | 31                   | 3.61                     | +0.08                     | 1.38                 | 0                         | 8                            | 6     | 19         | 5      | sw.                          | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                         | Morris.....     | 400             | 34                      | 60.0                         | -3.6                      | 94      | 1     | 34              | 24†   | 37                   | 6.86                     | +2.73                     | 3.12                 | 0                         | 7                            | ..... | .....      | .....  | ne.                          |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 20                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 7.91                     | +3.62                     | 2.23                 | 0                         | 8                            | 17    | 11         | 2      | .....                        |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 45                      | 64.0                         | -3.7                      | 96      | 1     | 39              | 24    | 36                   | 5.72                     | +1.95                     | 2.42                 | 0                         | 10                           | 11    | 13         | 6      | se.                          |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 38                      | 62.2                         | -4.1                      | 97      | 1     | 38              | 25†   | 35                   | 4.58                     | +0.68                     | 1.97                 | 0                         | 11                           | 15    | 7          | 8      | sw.                          | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood†.....                       | Bergen.....     | 90              | 36                      | 60.0                         | -3.7                      | 90      | 2     | 36              | 24†   | 31                   | 5.26                     | +1.34                     | 1.71                 | 0                         | 11                           | 9     | 11         | 10     | e.                           |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 26                      | 63.6                         | -2.6                      | 94      | 1     | 46              | 11    | 28                   | 3.06                     | -0.29                     | 1.16                 | 0                         | 10                           | 11    | 13         | 6      | nw.                          |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 37                      | 61.8                         | -4.0                      | 94      | 1     | 40              | 24    | 31                   | 5.04                     | +1.15                     | 1.96                 | 0                         | 10                           | 13    | 5          | 12     | sw.                          |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 21                      | 61.6                         | -2.5                      | 95      | 1†    | 37              | 24    | 35                   | 5.46                     | +1.88                     | 2.11                 | 0                         | 9                            | 9     | 14         | 7      | nw.                          | Passaic Consol. Water Co.<br>N. J. Experiment Station.<br>Hackensack Water Co.<br>Marion T. Probert.                     |
| New Brunswick.....                   | Middlesex.....  | 110             | 71                      | 62.0 <sup>b</sup>            | -3.6                      | 93      | 1     | 40              | 24†   | 32                   | 5.18                     | +1.58                     | 2.10                 | 0                         | 11                           | 15    | 6          | 9      | w.                           |                                                                                                                          |
| New Milford†.....                    | Bergen.....     | 9               | 4                       | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 5.31                     | .....                     | 2.34                 | 0                         | 7                            | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 53                      | 62.9                         | -3.3                      | 94      | 1     | 42              | 11†   | 32                   | 6.34                     | +2.21                     | 2.96                 | 0                         | 9                            | 11    | 3          | 16     | nw.                          |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 36                      | 60.6                         | -5.0                      | 93      | 1     | 37              | 24†   | 35                   | 6.42                     | +2.05                     | 2.40                 | 0                         | 9                            | 11    | 10         | 9      | s.                           | E. D. Pearson.<br>H. B. Ten Eyck.<br>William H. Meeder.<br>Hackensack Water Co.                                          |
| Somerville.....                      | Somerset.....   | 70              | 41                      | 60.8                         | -5.2                      | 88      | 1†    | 36              | 24†   | 37                   | 5.40                     | +1.75                     | 2.04                 | 0                         | 11                           | 17    | 5          | 8      | w.                           |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 54                      | 61.1                         | -3.0                      | 91      | 1     | 41              | 24    | 29                   | 6.09                     | +2.28                     | 1.80                 | 0                         | 8                            | 15    | 9          | 6      | nw.                          |                                                                                                                          |
| Woodcliff Lake†.....                 | Bergen.....     | 100             | 4                       | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 5.24                     | .....                     | 2.55                 | 0                         | 8                            | ..... | .....      | .....  | .....                        |                                                                                                                          |
| New York, N. Y.....                  |                 | 365             | 54                      | 63.0                         | -3.8                      | 92      | 1     | 46              | 11    | 30                   | 3.16                     | -0.43                     | 0.96                 | 0                         | 9                            | 7     | 7          | 16     | nw.                          | U. S. Weather Bureau.                                                                                                    |
| Means and extremes...                |                 |                 |                         | 61.8                         | -3.6                      | 97      | 1     | 34              | 24†   | 37                   | 5.47                     | +1.64                     | 3.12                 | 0                         | 9                            | 12    | 10         | 8      | nw.                          |                                                                                                                          |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Belleplain.....                      | Cape May.....   | 30              | 30                      | 62.5 <sup>a</sup>            | -4.0                      | 98      | 1     | 31 <sup>a</sup> | 11    | 39                   | 5.44                     | +2.05                     | 1.35                 | 0                         | 13                           | 14    | 6          | 10     | sw.                          | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                       | Cumberland..... | 30              | 43                      | 64.8                         | -3.4                      | 96      | 2     | 42              | 25    | 31                   | 5.12                     | +1.81                     | 1.28                 | 0                         | 8                            | 19    | 3          | 8      | w.                           |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 38                      | 63.8 <sup>a</sup>            | -3.0                      | 97      | 1     | 41              | 24    | 32                   | 5.98                     | +2.47                     | 2.08                 | 0                         | 10                           | 16    | 5          | 9      | e.                           |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 28                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | .....                    | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103             | 25                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 5.84                     | +2.65                     | 1.47                 | 0                         | 8                            | 14    | 8          | 8      | e.                           | Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.<br>James M. Armstrong.                               |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | .....                    | .....                     | .....                | 0                         | 12                           | 23    | 5          | 2      | .....                        |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | .....                        | .....                     | .....   | ..... | 37              | 24†   | .....                | 4.92                     | +1.10                     | 2.10                 | 0                         | 9                            | 10    | 9          | 11     | sw.                          |                                                                                                                          |
| Indian Mills†.....                   | Burlington..... | 76              | 35                      | 63.2                         | -2.9                      | 97      | 1     | 35              | 25    | 37                   | 5.86                     | +1.95                     | 2.20                 | 0                         | 9                            | 10    | 9          | 11     | ne.                          |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54              | 20                      | 62.8 <sup>a</sup>            | -1.8                      | 91      | 2     | 36              | 25    | 31                   | 4.79                     | +2.00                     | 1.00                 | 0                         | 11                           | 14    | 4          | 12     | ne.                          | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                      | Burlington..... | 75              | 61                      | 64.6                         | -1.4                      | 99      | 1     | 40              | 24    | 35                   | 4.80                     | +1.17                     | 1.86                 | 0                         | 8                            | 10    | 8          | 12     | nw.                          |                                                                                                                          |
| Northfield†.....                     | Atlantic.....   | 25              | 17                      | .....                        | .....                     | .....   | ..... | .....           | ..... | .....                | 4.13                     | +1.63                     | 1.15                 | 0                         | 14                           | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Pleasantville.....                   | Atlantic.....   | 26              | 26                      | 62.2                         | .....                     | 96      | 1     | 37              | 25    | 33                   | 3.49                     | +0.37                     | 0.88                 | 0                         | 10                           | 11    | 15         | 4      | ne.                          |                                                                                                                          |
| Runyon.....                          | Middlesex.....  | 18              | .....                   | 62.4 <sup>d</sup>            | .....                     | 95      | 1     | 32†             | 11†   | 42                   | 4.36                     | .....                     | 2.25                 | 0                         | 10                           | 13    | 8          | 9      | w.                           | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes<br>U. S. Weather Bureau.      |
| Trenton.....                         | Mercer.....     | 190             | 52                      | 63.1                         | -3.8                      | 95      | 1     | 43              | 11    | 30                   | 5.94                     | +2.35                     | 2.26                 | 0                         | 10                           | 8     | 8          | 14     | ne.                          |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 31                      | 63.3 <sup>b</sup>            | -2.9                      | 97      | 1     | 35              | 25    | 33                   | 4.29                     | +1.23                     | 1.30                 | 0                         | 6                            | 17    | 5          | 8      | ne.                          |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 55                      | 65.9 <sup>1</sup>            | -1.1                      | 98      | 1     | 48†             | 24    | 30 <sup>m</sup>      | .....                    | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....  | .....                        |                                                                                                                          |
| Philadelphia, Pa.....                |                 | 117             | 54                      | 65.0                         | -3.0                      | 95      | 1     | 48              | 11    | 28                   | 5.08                     | +1.70                     | 2.11                 | 0                         | 9                            | 7     | 6          | 17     | e.                           |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 63.5                         | -2.9                      | 99      | 1     | 31              | 11    | 42                   | 5.00                     | +1.73                     | 2.26                 | 0                         | 10                           | 14    | 7          | 9      | ne.                          |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |                 |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 35                      | 62.2                         | -4.6                      | 89      | 1     | 43              | 11    | 23                   | 4.30                     | +1.31                     | 0.87                 | 0                         | 11                           | 19    | 7          | 4      | nw.                          | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 50                      | 64.0                         | -2.8                      | 91      | 1     | 47              | 24    | 23                   | 3.50                     | +0.45                     | 1.16                 | 0                         | 14                           | 13    | 7          | 10     | e.                           |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 40                      | 65.2                         | -3.8                      | 95      | 1     | 46              | 24    | 24                   | 6.14                     | +3.14                     | 1.82                 | 0                         | 13                           | 10    | 5          | 15     | se.                          |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 17                      | 62.3                         | -3.6                      | 91      | 1     | 43              | 11    | 23                   | 3.02                     | -0.04                     | 0.78                 | 0                         | 10                           | 11    | 7          | 12     | ne.                          |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 26                      | 63.6                         | -3.5                      | 92      | 1     | 48              | 11    | 28                   | 2.47                     | -1.03                     | 0.60                 | 0                         | 10                           | 8     | 10         | 12     | s.                           |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 63.5                         | -3.7                      | 95      | 1     | 43              | 11    | 28                   | 3.89                     | +0.77                     | 1.82                 | 0                         | 12                           | 12    | 7          | 11     | e.                           |                                                                                                                          |
| For the State.....                   |                 |                 |                         | 62.2                         | -3.4                      | 99      | 1     | 29              | 26    | 42                   | 5.42                     | +1.83                     | 5.24                 | 0                         | 10                           | 13    | 8          | 9      | sw.                          |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, \*, †, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville.



| Daily Precipitation for September, 1924    |                 |              |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|-----|-----|---|----|------|------|----|----|-----|-----|-----|-----|------|-----|-----|----|-----|------|------|----|----|----|----|-----|------|------|------|-------|
| Stations                                   | Drainage Basin  | Day of month |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      | Total |
|                                            |                 | 1            | 2   | 3   | 4   | 5   | 6   | 7 | 8  | 9    | 10   | 11 | 12 | 13  | 14  | 15  | 16  | 17   | 18  | 19  | 20 | 21  | 22   | 23   | 24 | 25 | 26 | 27 | 28  | 29   | 30   | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
| Belvidere.....                             | Delaware.....   | .30          |     |     |     | .42 |     |   |    | .64  |      |    |    | T   |     |     |     |      |     |     |    | T.  | .65  |      |    |    |    |    | T.  | .97  | 3.88 | 6.86 |       |
| Charlotteburg.....                         | Passaic.....    | .28          |     |     |     | .18 |     |   |    | 2.00 |      |    |    |     |     |     |     |      |     |     |    |     | *    | 1.02 |    |    |    |    |     | *    | 4.49 | 7.97 |       |
| Culvers Lake.....                          | Delaware.....   | .02          | .07 |     |     | .34 |     |   |    | .70  |      |    |    | .01 |     |     |     |      |     |     |    | T.  | .68  | .47  |    |    |    |    |     | 1.05 | 3.65 | 6.95 |       |
| Dover.....                                 | Passaic.....    | .22          |     |     |     | .29 | .05 |   |    | .87  |      |    |    |     |     |     |     |      |     |     |    |     | 1.36 |      |    |    |    |    |     | .02  | 2.70 | 1.96 | 7.47  |
| Layton.....                                | Delaware.....   | .11          | .01 |     |     | .63 | .02 |   |    | 1.07 | .03  |    |    | .03 |     |     |     |      |     |     |    | T.  | .42  | .26  |    |    |    |    |     | .62  | 5.24 | 8.44 |       |
| Newton.....                                | Delaware.....   |              |     |     | .12 | .50 |     |   |    | .72  |      |    |    |     |     |     |     |      |     |     |    |     | .14  | .85  |    |    |    |    |     | .65  | 3.13 | 6.11 |       |
| Phillipsburg.....                          | do.....         | .14          |     |     |     | .28 |     |   |    | .63  | .01  |    |    | T.  |     |     |     |      |     |     |    | *   | .98  |      |    |    |    |    | T.  | 1.35 | 2.64 | 6.03 |       |
| Sussex.....                                | Hudson.....     | .04          | .11 |     |     | .30 | .04 |   |    | .60  |      |    |    |     |     |     |     |      |     |     |    |     | .26  | .58  |    |    |    |    |     | .50  | 3.50 | 5.93 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
| Bergen Point**.....                        | Coast.....      | .60          |     |     |     | .19 |     |   | T. | .42  |      |    |    |     |     |     |     | .14  |     |     |    |     | .63  | .05  |    |    |    |    |     | .20  | 1.38 | 3.61 |       |
| Boonton   .....                            | Passaic.....    |              | .52 |     |     |     | .30 |   |    | .01  | 3.12 |    |    |     |     |     |     |      | T.  |     |    | T.  | .27  | 1.08 |    |    |    |    |     |      | 1.56 | 6.86 |       |
| Chatham   .....                            | do.....         |              | .62 |     |     |     | .26 |   |    | .17  | 1.86 |    |    |     |     |     |     |      |     |     |    |     | .11  | .81  |    |    |    |    |     | 1.85 | 2.23 | 7.91 |       |
| Elizabeth.....                             | Coast.....      | .41          |     | .17 |     |     | .22 |   |    | .95  | .35  |    |    |     |     |     |     | .05  |     |     |    |     | .12  | .73  |    |    |    |    |     | .30  | 2.42 | 5.72 |       |
| Flemington.....                            | Raritan.....    | .39          | .12 |     | .26 |     |     |   |    | .21  | .25  |    |    |     |     |     |     | T.   | .02 |     |    | T.  | .14  | .74  |    |    |    |    | .02 | .46  | 1.97 | 4.58 |       |
| Highwood.....                              | Hackensack..... | 1.25         | .04 |     | .34 |     |     |   |    | .97  | .12  |    |    |     |     |     |     | .07  | .01 |     |    |     | .16  | .51  |    |    |    |    |     |      | .08  | 1.71 | 5.26  |
| Jersey City.....                           | Coast.....      | .40          | .01 |     | .25 |     |     |   |    | .25  | .09  |    |    |     |     |     |     | .10  |     |     |    |     | .14  | .48  |    |    |    |    |     | .18  | 1.16 | 3.06 |       |
| Lambertville.....                          | Delaware.....   | .38          |     |     | .12 |     |     |   |    | .62  | .04  |    |    |     |     |     |     | .04  | .05 |     |    | T.  | .36  | .77  |    |    |    |    |     | .70  | 1.96 | 5.04 |       |
| Little Falls.    .....                     | Passaic.....    |              | .35 |     |     | .31 |     |   |    | .03  | 2.11 |    |    |     | T.  |     |     |      | .01 |     |    |     | .07  | .85  |    |    |    |    | .03 |      |      | 5.46 |       |
| New Brunswick.....                         | Raritan.....    |              | .33 |     | .14 | .10 |     |   |    | 1.29 | .30  |    |    |     |     |     |     | .09  | .09 |     |    |     | .04  | .60  |    |    |    |    |     | .10  | 2.10 | 5.18 |       |
| New Milford.....                           | Hackensack..... | .60          |     |     | .33 |     |     |   |    | 1.00 |      |    |    |     |     |     |     | .33  |     |     |    |     | .63  | .13  |    |    |    |    |     | .28  | 2.34 | 5.31 |       |
| Paterson.....                              | Passaic.....    | .22          | .13 |     | .20 |     |     |   | T. | 1.00 | .70  |    |    | T.  |     |     |     |      | .02 |     |    | T.  | .15  | .70  |    |    |    |    | T.  | .26  | 2.96 | 6.34 |       |
| Plainfield.....                            | Raritan.....    | .39          |     |     | .27 |     |     |   |    | 1.97 |      |    |    |     |     |     |     | .02  |     |     |    | .01 | .24  | .90  |    |    |    |    |     | .22  | 2.40 | 6.42 |       |
| Somerville.....                            | Raritan.....    | .22          | .17 |     | .16 | .08 |     |   |    | .84  | .61  |    |    |     |     |     |     |      | .06 |     |    |     | .08  | .96  |    |    |    |    |     | .18  | 2.04 | 5.40 |       |
| South Orange.....                          | Rahway.....     | .54          |     |     | .33 |     |     |   |    | 1.64 |      |    |    | T.  |     |     |     | .03  |     |     |    |     | .68  | .27  |    |    |    |    |     | .80  | 1.80 | 6.09 |       |
| Woodcliffe Lake.**.....                    | Hackensack..... | .20          |     |     | .18 |     |     |   |    | 1.40 | .03  |    |    |     |     |     |     | .18  |     |     |    |     | .45  | .18  |    |    |    |    |     | .25  | 2.55 | 5.24 |       |
| New York, N. Y.***.....                    | Coast.....      | .41          | .01 |     | .59 |     |     |   |    | .34  |      |    |    |     |     |     |     | .18  | T.  |     |    |     | .53  | .11  |    |    |    |    |     | .17  | .82  | 3.16 |       |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
| Belleplain.....                            | Tuckahoe.....   |              | .53 |     | .08 | .04 |     |   |    | .44  | .05  |    |    |     | .34 | .04 |     | .93  | .03 |     |    |     | .07  | 1.35 |    |    |    |    |     | *    | 1.54 | 5.44 |       |
| Bridgeton.....                             | Coast.....      | .33          |     |     | .28 |     |     |   |    | .30  |      |    |    | .50 |     |     |     | .88  |     |     |    |     | 1.28 |      |    |    |    |    |     | .95  | .60  | 5.12 |       |
| Burlington.....                            | Delaware.....   |              | .71 |     | T.  | .15 |     |   |    | .51  | .81  |    |    |     | .15 |     |     | .35  |     |     |    |     | *    | .95  |    |    |    |    |     | .27  | 2.08 | 5.98 |       |
| Clayton.....                               | Delaware.....   |              |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
| Hammonton.....                             | Mullica.....    |              |     |     | .65 |     |     |   |    | 1.04 |      |    |    |     | .56 |     |     |      |     | .90 |    | .06 | .54  |      |    |    |    |    |     | .62  | 1.47 | 5.84 |       |
| Hightstown.....                            | Raritan.....    |              |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
| Imlaystown.....                            | Delaware.....   |              | .39 | .05 |     | .15 | .05 |   |    | .24  | .49  |    |    |     |     |     |     | .38  | .07 |     |    | .05 |      | .90  |    |    |    |    |     | .05  | 2.10 | 4.92 |       |
| Indian Mills.....                          | Mullica.....    | T.           | .28 |     | .25 |     |     |   |    | .40  | .18  |    |    |     | .56 |     |     | .87  |     |     |    | T.  | T.   | 1.02 |    |    |    |    |     | .10  | 2.20 | 5.86 |       |
| Lakewood.....                              | Metedeconk..... |              | .26 |     | .27 |     |     |   |    | 1.09 | .43  |    |    |     | .45 |     |     | .90  | .08 |     |    |     | .04  | .60  |    |    |    |    |     | .06  | .70  | 4.79 |       |
| Moorestown.....                            | Delaware.....   | .47          |     |     | .18 |     |     |   |    | .75  |      |    |    | T.  |     |     |     | .38  |     |     |    |     | .12  | .74  |    |    |    |    |     | .30  | 1.86 | 4.80 |       |
| Northfield.....                            | Coast.....      | .10          | .19 |     | .06 |     |     |   |    | .37  | .04  |    |    |     | .23 | .06 |     | 1.11 | .03 |     |    | .02 | .08  | 1.15 |    |    |    |    |     | .05  | .64  | 4.13 |       |
| Pleasantville   .....                      | Coast.....      |              | .31 | T.  |     | .05 |     |   |    | .56  |      |    |    |     | .18 | .03 |     | .32  | .79 |     |    |     | .08  | .88  |    |    |    |    |     |      | .29  | 3.49 |       |
| Runyon.....                                | Coast.....      |              | .10 |     | .05 |     |     |   |    | .26  | .23  |    |    |     | .38 |     |     | .36  |     |     |    |     | .04  | .61  |    |    |    |    |     | .08  | 2.25 | 4.36 |       |
| Trenton**.....                             | Delaware.....   | T.           | .45 |     | .12 |     |     |   |    | 2.26 | T.   |    |    | .18 |     |     |     | .22  | .01 |     |    | .03 | .81  |      |    |    |    |    |     | .36  | 1.50 | 5.94 |       |
| Tuckerton.....                             | Coast.....      | .90          |     |     | .20 |     |     |   | *  |      |      |    |    |     | .75 |     |     | 1.30 |     |     |    |     |      | .73  |    |    |    |    |     |      | .41  | 4.29 |       |
| Vineland.....                              | Maurice.....    |              | .34 |     | *   |     |     |   |    | .61  |      |    |    |     | *   |     |     | 1.87 |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
| Philadelphia, Pa.....                      | Delaware.....   | .37          |     |     | .15 |     |     |   |    | 1.06 | T.   |    |    | .01 |     |     |     | .21  |     |     |    | .02 | .76  |      |    |    |    |    | T.  | .99  | 1.51 | 5.08 |       |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |     |     |   |    |      |      |    |    |     |     |     |     |      |     |     |    |     |      |      |    |    |    |    |     |      |      |      |       |
| Asbury Park.....                           | Coast.....      | .20          | .15 |     | .25 | .43 |     |   |    | .40  | .30  |    |    | .55 |     |     |     | .87  | .05 |     |    |     | .05  | .60  |    |    |    |    |     | *    | .45  | 4.30 |       |
| Atlantic City***.....                      | do.....         | .18          | .15 |     | .07 |     |     |   |    | .37  |      |    |    | .12 |     | .02 | .01 | .92  | .01 |     |    | .01 | .31  | .85  |    |    |    |    |     | .10  | .38  | 3.50 |       |
| Cape May City.....                         | do.....         | .02          | .14 |     | .27 |     |     |   |    | .37  | .05  |    |    | T.  | .35 | .03 | T.  | 1.33 | .01 |     |    | T.  | 1.72 | .01  |    |    |    |    |     | .02  | 1.82 | 6.14 |       |
| Long Branch**.....                         | do.....         | .12          | .03 |     | .32 |     |     |   |    | .78  |      |    |    | .12 |     |     |     | .34  |     |     |    |     | .67  | .10  |    |    |    |    |     | .07  | .47  | 3.02 |       |
| Sandy Hook***.....                         | do.....         | .12          | .02 |     | .22 |     |     |   |    | .54  |      |    |    | T.  |     |     |     | .56  | .04 |     |    | T.  | .47  | .04  |    |    |    |    |     | .03  | .43  | 2.47 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

| MISCELLANEOUS DATA    |              |         |      |        |      |                 |                |           |      |                                      |                                     |                                 |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|--------------------------------------|-------------------------------------|---------------------------------|
| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                             |                                     | Sun-shine                       |
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity, per cent at 8 a m | Relative humidity per cent at 8 p m | Percentage of possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                      |                                     |                                 |
| Atlantic City.....    | 30.09        | 30.55   | 27   | 29.45  | 30   | 20              | 82             | se.       | 30   | 78                                   | 80                                  | 51                              |
| Cape May City.....    | 30.13        | 30.56   | 27   | 29.52  | 30   | 9               | 42             | se.       | 30   | 83                                   | 81                                  | .....                           |
| Long Branch.....      | 30.09        | 30.50   | 26   | 29.41  | 30   | 17              | 60             | se.       | 30   | 78                                   | 72                                  | 63                              |
| New York, N. Y.....   | 30.10        | 30.59   | 27   | 29.55  | 30   | 9               | 30             | s.        | 30   | 75                                   | 68                                  | 48                              |
| Philadelphia, Pa..... | 30.08        | 30.59   | 27   | 29.40  | 30   | 16              | 51             | s.        | 30   | 77                                   | 76                                  | 67                              |
| Sandy Hook.....       | 30.09        | 30.58   | 27   | 29.51  | 30   | 11              | 39             | sw.       | 30   | 83                                   | 80                                  | 53                              |
| Trenton.....          | 30.09        | 30.58   | 27   | 29.51  | 30   | 11              | 39             | sw.       | 30   | 83                                   | 80                                  | 53                              |



## Daily Temperatures for September, 1924

| Stations                             | 1             | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9  | 10    | 11 | 12 | 13   | 14    | 15 | 16    | 17 | 18 | 19    | 20 | 21 | 22 | 23 | 24    | 25 | 26 | 27 | 28 | 29    | 30    | 31    | Mean  |      |
|--------------------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|----|-------|----|----|------|-------|----|-------|----|----|-------|----|----|----|----|-------|----|----|----|----|-------|-------|-------|-------|------|
| The Highlands and Kittatinny Valley. |               |       |       |       |       |       |       |       |    |       |    |    |      |       |    |       |    |    |       |    |    |    |    |       |    |    |    |    |       |       |       |       |      |
| Belvidere.....                       | Maximum ...   | 92    | 91    | 74    | 76    | 65    | 68    | 65    | 77 | 72    | 58 | 65 | 70   | 74    | 69 | 70    | 71 | 64 | 75    | 78 | 71 | 71 | 68 | 70    | 68 | 73 | 70 | 61 | 76    | 67    | 65    | 71.1  |      |
|                                      | Minimum ..... | 56    | 62    | 53    | 43    | 48    | 41    | 45    | 50 | 57    | 46 | 38 | 45   | 58    | 54 | 48    | 70 | 45 | 51    | 45 | 47 | 46 | 49 | 58    | 50 | 36 | 40 | 42 | 40    | 55    | 62    | 48    | 48.7 |
| Charlotteburg.....                   | Maximum ...   | 98    | 90    | 87    | 76    | 65    | 62    | 70    | 70 | 66    | 58 | 64 | 77   | 80    | 75 | 70    | 72 | 69 | 73    | 73 | 67 | 68 | 68 | 55    | 67 | 70 | 68 | 70 | 65    | 64    | 69    | 71.2  |      |
|                                      | Minimum ..... | 68    | 60    | 52    | 44    | 40    | 42    | 37    | 52 | 56    | 47 | 34 | 45   | 47    | 43 | 50    | 36 | 46 | 40    | 39 | 38 | 54 | 53 | 49    | 30 | 40 | 29 | 35 | 45    | 55    | 45.0* |       |      |
| Dover .....                          | Maximum ...   | 95    | 90    | 80    | 78    | 72    | 68    | 74    | 74 | 69    | 61 | 65 | 79   | 81    | 73 | 66    | 69 | 63 | 73    | 72 | 66 | 64 | 53 | 49    | 30 | 40 | 29 | 35 | 45    | 55    | 45.0* |       |      |
|                                      | Minimum ..... | 65    | 61    | 55    | 46    | 42    | 43    | 40    | 48 | 50    | 45 | 38 | 42   | 52    | 51 | 47    | 43 | 51 | 44    | 45 | 44 | 54 | 56 | 47    | 36 | 35 | 36 | 35 | 49    | 54    | 48    | 71.2  |      |
| Layton.....                          | Maximum ...   | 93    | 90    | 74    | 78    | 70    | 65    | 70    | 78 | 68    | 58 | 64 | 79   | 76    | 69 | 70    | 72 | 66 | 74    | 75 | 69 | 67 | 65 | 70    | 68 | 72 | 70 | 70 | 69    | 68    | 69    | 71.5  |      |
|                                      | Minimum ..... | 62    | 58    | 52    | 40    | 43    | 42    | 36    | 45 | 58    | 45 | 34 | 41   | 58    | 50 | 46    | 45 | 48 | 42    | 45 | 54 | 57 | 49 | 32    | 37 | 40 | 38 | 49 | 61    | 50    | 46.8  |       |      |
| Newton.....                          | Maximum ...   | 96    | 98    | ..... | ..... | 65    | ..... | ..... | 76 | ..... | 65 | 72 | 78   | 71    | 72 | ..... | 70 | 77 | 80    | 76 | 75 | 72 | 65 | ..... | 73 | 80 | 76 | 75 | ..... | ..... | ..... | 74.4* |      |
|                                      | Minimum ..... | 61    | ..... | 48    | 42    | ..... | ..... | ..... | 50 | 50    | 38 | 42 | 48   | 56    | 50 | 45    | 45 | 50 | ..... | 58 | 50 | 58 | 50 | 37    | 40 | 43 | 39 | 42 | 60    | 47    | 47.2* |       |      |
| Phillipsburg.....                    | Maximum ...   | 97    | 93    | 75    | 77    | 66    | 70    | 74    | 77 | 74    | 61 | 61 | 81   | 82    | 70 | 69    | 71 | 61 | 76    | 74 | 68 | 69 | 69 | 70    | 68 | 71 | 68 | 70 | 77    | 70    | 70    | 72.6  |      |
|                                      | Minimum ..... | 62    | 63    | 55    | 48    | 50    | 45    | 43    | 50 | 58    | 48 | 42 | 47   | 55    | 55 | 50    | 45 | 53 | 48    | 47 | 52 | 52 | 60 | 48    | 40 | 42 | 44 | 56 | 64    | 49    | 50.4  |       |      |
| Sussex.....                          | Maximum ...   | 93    | 92    | 78    | 79    | 68    | 68    | 72    | 76 | 70    | 58 | 67 | 81   | 80    | 70 | 72    | 72 | 64 | 75    | 79 | 72 | 68 | 68 | 67    | 70 | 73 | 75 | 71 | 76    | 70    | 73.1  |       |      |
|                                      | Minimum ..... | 64    | 60    | 53    | 38    | 44    | 42    | 36    | 45 | 52    | 49 | 37 | 41   | 58    | 52 | 45    | 40 | 49 | 42    | 43 | 44 | 55 | 57 | 50    | 34 | 34 | 37 | 33 | 48    | 62    | 49    | 46.4  |      |
| The Red Sandstone Plain.             |               |       |       |       |       |       |       |       |    |       |    |    |      |       |    |       |    |    |       |    |    |    |    |       |    |    |    |    |       |       |       |       |      |
| Bergen Point.....                    | Maximum ...   | 96    | 96    | 69    | 71    | 74    | 67    | 72    | 75 | 72    | 62 | 62 | 82   | 83    | 73 | 69    | 70 | 61 | 76    | 74 | 66 | 66 | 75 | 69    | 76 | 70 | 66 | 70 | 73    | 73    | 70    | 72.6  |      |
|                                      | Minimum ..... | 71    | 65    | 59    | 54    | 54    | 47    | 52    | 54 | 59    | 52 | 43 | 52   | ..... | 62 | 54    | 52 | 56 | 51    | 54 | 55 | 58 | 60 | 55    | 46 | 49 | 47 | 47 | 56    | 57    | 52    | 54.2* |      |
| Boonton§§.....                       | Maximum ...   | 94    | 91    | 71    | 76    | 70    | 67    | 71    | 74 | 70    | 61 | 64 | 78   | 80    | 69 | 69    | 73 | 61 | 75    | 76 | 69 | 67 | 72 | 66    | 70 | 72 | 71 | 69 | 74    | 70    | 70    | 72.0  |      |
|                                      | Minimum ..... | 65    | 61    | 55    | 49    | 45    | 46    | 40    | 46 | 53    | 51 | 39 | 42   | 54    | 54 | 47    | 42 | 50 | 46    | 45 | 44 | 53 | 55 | 52    | 34 | 34 | 34 | 36 | 49    | 56    | 64    | 48.0  |      |
| Elizabeth.....                       | Maximum ...   | 96    | 95    | 78    | 78    | 77    | 69    | 76    | 79 | 73    | 66 | 68 | 83   | 85    | 84 | 70    | 72 | 67 | 76    | 77 | 71 | 68 | 75 | 72    | 67 | 72 | 69 | 76 | 73    | 71    | 71    | 72.5  |      |
|                                      | Minimum ..... | 70    | 70    | 52    | 50    | 50    | 45    | 44    | 51 | 64    | 52 | 44 | 47   | 61    | 59 | 52    | 53 | 55 | 49    | 52 | 51 | 56 | 61 | 53    | 39 | 43 | 44 | 46 | 55    | 62    | 55    | 58.8  |      |
| Flemington.....                      | Maximum ...   | 97    | 92    | 71    | 79    | 69    | 71    | 76    | 76 | 71    | 67 | 68 | 81   | 85    | 75 | 67    | 72 | 66 | 77    | 75 | 67 | 68 | 71 | 69    | 72 | 71 | 66 | 68 | 77    | 71    | 71    | 73.5  |      |
|                                      | Minimum ..... | 70    | 65    | 58    | 46    | 48    | 45    | 43    | 50 | 60    | 51 | 40 | 46   | 57    | 59 | 50    | 47 | 47 | 48    | 51 | 56 | 59 | 50 | 40    | 38 | 38 | 43 | 56 | 60    | 52    | 50    | 56.9  |      |
| Highwood.....                        | Maximum ...   | 89    | 90    | 69    | 71    | 71    | 65    | 69    | 72 | 70    | 62 | 64 | 76   | 81    | 70 | 66    | 68 | 60 | 70    | 69 | 65 | 67 | 72 | 67    | 62 | 67 | 66 | 66 | 70    | 72    | 70    | 69.9  |      |
|                                      | Minimum ..... | 68    | 63    | 57    | 47    | 51    | 44    | 43    | 48 | 61    | 52 | 40 | 45   | 62    | 57 | 49    | 46 | 53 | 47    | 47 | 47 | 53 | 58 | 52    | 36 | 36 | 40 | 38 | 49    | 62    | 53    | 50.1  |      |
| Jersey City.....                     | Maximum ...   | 94    | 92    | 72    | 73    | 73    | 67    | 71    | 71 | 70    | 61 | 64 | 79   | 81    | 69 | 70    | 61 | 74 | 70    | 66 | 64 | 72 | 67 | 65    | 68 | 67 | 68 | 69 | 71    | 70    | 70    | 71.0  |      |
|                                      | Minimum ..... | 74    | 64    | 57    | 54    | 53    | 49    | 50    | 57 | 58    | 52 | 46 | 58   | 64    | 60 | 56    | 57 | 56 | 55    | 59 | 54 | 57 | 59 | 52    | 49 | 51 | 54 | 52 | 57    | 63    | 55    | 56.1  |      |
| Lambertville.....                    | Maximum ...   | 94    | 89    | 71    | 76    | 71    | 65    | 71    | 76 | 70    | 58 | 63 | 79   | 82    | 70 | 67    | 70 | 60 | 73    | 75 | 68 | 70 | 71 | 67    | 67 | 68 | 66 | 65 | 75    | 70    | 70    | 71.2  |      |
|                                      | Minimum ..... | 71    | 63    | 58    | 53    | 51    | 44    | 44    | 53 | 58    | 44 | 41 | 48   | 62    | 60 | 52    | 50 | 55 | 52    | 52 | 52 | 56 | 59 | 45    | 45 | 45 | 57 | 63 | 60    | 50    | 52.5* |       |      |
| Little Falls§§.....                  | Maximum ...   | 95    | 95    | 72    | 78    | 68    | 73    | 75    | 75 | 77    | 62 | 66 | 80   | 77    | 75 | 69    | 62 | 60 | 76    | 70 | 70 | 79 | 69 | 70    | 72 | 72 | 70 | 74 | 75    | 70    | 70    | 73.2  |      |
|                                      | Minimum ..... | 67    | 64    | 56    | 47    | 45    | 42    | 49    | 50 | 54    | 57 | 39 | 45   | 55    | 59 | 49    | 45 | 55 | 45    | 47 | 46 | 52 | 57 | 44    | 37 | 47 | 38 | 37 | 49    | 60    | 65    | 50.1  |      |
| New Brunswick.....                   | Maximum ...   | 93    | 90    | 84    | 75    | 74    | 67    | 70    | 75 | 72    | 66 | 65 | 79   | 83    | 79 | 68    | 69 | 64 | 72    | 73 | 66 | 66 | 75 | 69    | 67 | 67 | 65 | 64 | 74    | 72    | 73    | 72.5  |      |
|                                      | Minimum ..... | ..... | 58    | 52    | 50    | 46    | ..... | ..... | 61 | ..... | 41 | 47 | 60   | 60    | 58 | 49    | 55 | 49 | 50    | 53 | 56 | 60 | 52 | 40    | 40 | 40 | 46 | 56 | 58    | 52    | 51    | 44*   |      |
| Paterson.....                        | Maximum ...   | 94    | 93    | 75    | 77    | 75    | 69    | 73    | 76 | 69    | 65 | 67 | 80   | 83    | 75 | 69    | 72 | 69 | 75    | 75 | 69 | 67 | 71 | 70    | 67 | 70 | 69 | 68 | 71    | 71    | 69    | 73.1  |      |
|                                      | Minimum ..... | 71    | 68    | 58    | 52    | 52    | 46    | 45    | 53 | 61    | 52 | 42 | 48   | 62    | 59 | 53    | 50 | 55 | 50    | 52 | 51 | 55 | 59 | 51    | 42 | 42 | 44 | 43 | 52    | 61    | 53    | 52.7  |      |
| Plainfield.....                      | Maximum ...   | 93    | 91    | 72    | 72    | 75    | 67    | 72    | 76 | 70    | 61 | 65 | 79   | 82    | 70 | 71    | 70 | 60 | 74    | 70 | 67 | 67 | 73 | 67    | 66 | 68 | 68 | 70 | 74    | 71    | 71    | 71.7  |      |
|                                      | Minimum ..... | 69    | 64    | 54    | 49    | 46    | 45    | 39    | 48 | 59    | 50 | 38 | 44   | 57    | 57 | 50    | 47 | 53 | 47    | 46 | 47 | 54 | 60 | 50    | 37 | 37 | 39 | 50 | 56    | 55    | 49    | 49.5  |      |
| Somerville.....                      | Maximum ...   | 88    | 88    | 73    | 74    | 73    | 61    | 66    | 72 | 72    | 67 | 61 | 81   | 85    | 78 | 70    | 73 | 65 | 78    | 76 | 67 | 71 | 73 | 72    | 70 | 70 | 69 | 70 | 72    | 71    | 73    | 72.6  |      |
|                                      | Minimum ..... | 66    | 64    | 58    | 46    | 46    | 40    | 39    | 48 | 60    | 49 | 37 | 44   | 58    | 56 | 50    | 45 | 54 | 46    | 47 | 50 | 55 | 60 | 42    | 36 | 36 | 38 | 42 | 60    | 53    | 48    | 48.9  |      |
| South Orange.....                    | Maximum ...   | 91    | 89    | 70    | 72    | 72    | 65    | 69    | 73 | 71    | 61 | 62 | 76   | 80    | 69 | 67    | 69 | 60 | 70    | 70 | 65 | 67 | 73 | 66    | 63 | 65 | 65 | 67 | 72    | 70    | 71    | 70.0  |      |
|                                      | Minimum ..... | 71    | 62    | 56    | 54    | 52    | 47    | 46    | 52 | 58    | 47 | 42 | 47   | 59    | 55 | 52    | 50 | 55 | 50    | 52 | 52 | 56 | 60 | 50    | 41 | 43 | 44 | 47 | 53    | 63    | 51    | 52.2  |      |
| New York, N. Y.....                  | Maximum ...   | 92    | 89    | 71    | 73    | 71    | 66    | 70    | 70 | 68    | 61 | 63 | 78   | 79    | 67 | 68    | 70 | 62 | 73    | 70 | 64 | 64 | 72 | 67    | 64 | 67 | 66 | 66 | 68    | 70    | 70    | 70.0  |      |
|                                      | Minimum ..... | 74    | 59    | 57    | 54    | 53    | 48    | 50    | 58 | 58    | 51 | 46 | 58   | 65    | 60 | 57    | 57 | 57 | 55    | 59 | 55 | 57 | 59 | 52    | 49 | 52 | 55 | 53 | 57    | 63    | 52    | 56.0  |      |
| The Southern Interior.               |               |       |       |       |       |       |       |       |    |       |    |    |      |       |    |       |    |    |       |    |    |    |    |       |    |    |    |    |       |       |       |       |      |
| Belleplain.....                      | Maximum ...   | 98    | 91    | 80    | 78    | 76    | 71    | 74    | 76 | 73    | 68 | 69 | 81   | 84    | 75 | 67    | 70 | 63 | 74    | 74 | 67 | 70 | 78 | 72    | 68 | 68 | 70 | 76 | 73    | 73    | 70    | 74.4* |      |
|                                      | Minimum ..... | 60    | 65    | 57    | 45    | 42    | 40    | 55    | 37 | 63    | 59 | 31 | 44   | 65    | 59 | 54    | 48 | 54 | 43    | 48 | 45 | 43 | 63 | 54    | 39 | 32 | 40 | 61 | 64    | 51    | 50    | 60.6* |      |
| Bridgeton.....                       | Maximum ...   | 95    | 96    | 72    | 77    | 76    | 72    | 75    | 75 | 74    | 74 | 73 | 78   | 85    | 77 | 67    | 72 | 66 | 77    | 76 | 72 | 68 | 73 | 70    | 72 | 73 | 72 | 80 | 72    | 70    | 75.0  |       |      |
|                                      | Minimum ..... | 68    | 71    | 60    | 50    | 55    | 45    | 45    | 50 | 63    | 50 | 43 | 58</ |       |    |       |    |    |       |    |    |    |    |       |    |    |    |    |       |       |       |       |      |



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXIX.

OCTOBER, 1924.

No. 10

### GENERAL SUMMARY.

Heavy rains at the close of September, particularly in the headwaters of northern streams, caused one of the heaviest floods in the Delaware of recent record. The crest of the flood passed out of the Delaware into tide water at Trenton between midnight and 3 A. M., of the 2d, reaching an estimated height of 12.5 feet. This was the highest stage at Trenton since March 29, 1914. The highest stage at Phillipsburg, 22.0 feet on the 1st, exceeded all floods since 1903. Considerable damage was done from overflow and washing, not very large in any single instance, but large in the aggregate. This flood was notable as resulting entirely from rain, and was not augmented by ice jams, such as usually occur with spring floods.

No further rain fell until a light shower on the early morning of the 8th, and none thereafter through the close of the month. This gives the driest month on record, and the longest period without rain on record. At seven stations the rainfall was less than a tenth of an inch. A few stations where observations are recorded in the morning have, of necessity, entered a record of rain on the 1st, but these amounts actually occurred at the close of the September 30th storm. Omitting these entries from the computations, it would leave about 0.2 inch as the monthly rainfall for the State and also for the Red Sandstone Plain. Coming at the close of the crop season the drought had little adverse effect, except that it interfered with plowing and checked germination of late sown grass and grain. In the forests, however, the fire hazard greatly increased, and numerous fires were continually breaking out in the later portions of the month.

Temperature conditions were approximately normal. As would be expected, the number of clear days and amount of sunshine far exceeded normal.

No storm warnings were displayed along the coast.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 54.4°, which was 0.4° below the normal. The highest temperature was 84° at Indian Mills on the 6th, and the lowest, 16° at Runyon on the 23d. The highest monthly mean temperature was 58.4° at Cape May City, and the lowest, 50.2° at Charlotteburg and Layton. The greatest daily range of temperature was 50° at Sussex on the 27th.

The temperature departure from the normal for the year 1924, to date, by sections, is: The Highlands, -1.3°; Red Sandstone Plain, -1.2°; Southern Interior, -1.1°; Sea Coast, -0.7°.

### PRECIPITATION.

The mean total rainfall of the State, as deduced from observations of 40 stations, was 0.31 inch, which was 3.39 inches below the normal. The greatest monthly rainfall was 2.76 inches at Little Falls, and the least, 0.04 inch at Phillipsburg. The greatest amount of rain in any 24 consecutive hours was 2.52 inches at Little Falls on September 30th-October 1st. The mean of the number of days on which 0.01 inch or more of rain fell was 1, which was 7 less than the normal.

The precipitation accumulated departure from the normal for the year 1924 to date, by sections, is: The Highlands, -3.70 inches; Red Sandstone Plain, +1.78 inches; Southern Interior, +3.45 inches; Sea Coast, -4.61 inches.

### WIND.

The prevailing wind direction was from the northwest, with an average velocity of 10 miles per hour, which was 2 miles below the normal. The highest velocity, sustained for 5 consecutive minutes, was 46 miles per hour from the northwest at Sandy Hook on the 20th. High winds occurred also on the 1st and 29th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 23, or 9 more than the normal; partly cloudy, 6, or 2 less than the normal; cloudy, 2, or 7 less than the normal. The per cent of possible sunshine was 84, which was 21 per cent above the normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.20 inches, which was 0.13 inch above the normal. The highest reading was 30.58 inches at Sandy Hook on the 30th and Cape May City on the 31st, and the lowest 29.78 inches at Sandy Hook on the 20th.

The mean stage of the Delaware River at Phillipsburg was 2.2 feet, and the highest stage, 22.0 feet on the 1st. At Trenton the mean stage was 2.1 feet, which was 0.7 foot above the normal. The highest stage, 12.5 feet, occurred on the 2d.

A thunderstorm occurred at Cape May City on the 8th. Dense fog was noted on the 1st, 3d, 4th, 5th, 6th, 7th, 11th, 16th, and 17th. Solar halos were observed on the 4th, 14th, 16th, 18th, and 19th, and lunar halos on the 4th, 10th, 13th, and 14th. The first killing frost occurred at a few stations in Morris and Sussex Counties on the 2d and 9th, at scattered stations in central and northern districts, on the 13th and 14th, and generally throughout the State on the 21st and 23d, except along the southern coast where light to heavy frosts only occurred.

### COMPARATIVE DATA FOR OCTOBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 54.2        | 82      | 29     | 4.20          | 5.85     | 2.91  | .....      | .....         | .....  | .....                  |
| 1886..... | 55.6        | 88      | 21     | 3.22          | 8.16     | 2.02  | .....      | .....         | .....  | 7                      |
| 1887..... | 52.3        | 89      | 21     | 2.61          | 5.00     | 1.58  | .....      | .....         | .....  | 12                     |
| 1888..... | 49.2        | 73      | 25     | 4.73          | 7.00     | 2.97  | .....      | .....         | 10     | 12                     |
| 1889..... | 50.8        | 82      | 23     | 3.80          | 5.03     | 2.42  | .....      | .....         | 12     | 11                     |
| 1890..... | 53.9        | 81      | 24     | 6.33          | 10.18    | 3.40  | 9          | 8             | 14     | 13                     |
| 1891..... | 52.8        | 92      | 18     | 3.44          | 5.57     | 1.88  | 11         | 11            | 9      | 8                      |
| 1892..... | 53.6        | 85      | 21     | 0.52          | 1.09     | 0.04  | 14         | 12            | 5      | 4                      |
| 1893..... | 55.2        | 85      | 17     | 4.22          | 6.59     | 1.74  | 15         | 7             | 9      | 7                      |
| 1894..... | 55.3        | 87      | 27     | 5.67          | 8.23     | 3.90  | 12         | 7             | 12     | 10                     |
| 1895..... | 49.9        | 83      | 18     | 3.60          | 5.53     | 1.62  | 19         | 7             | 5      | 5                      |
| 1896..... | 51.5        | 82      | 21     | 2.24          | 4.58     | 1.72  | 11         | 8             | 12     | 8                      |
| 1897..... | 55.8        | 95      | 22     | 2.43          | 6.49     | 0.87  | 14         | 8             | 9      | 7                      |
| 1898..... | 56.5        | 88      | 24     | 5.76          | 8.42     | 3.92  | 13         | 9             | 9      | 10                     |
| 1899..... | 56.6        | 86      | 18     | 2.72          | 4.65     | 1.07  | 13         | 10            | 8      | 6                      |
| 1900..... | 59.9        | 92      | 19     | 3.70          | 6.59     | 1.47  | 10         | 8             | 13     | 10                     |
| 1901..... | 54.4        | 82      | 21     | 1.93          | 4.45     | 0.87  | 17         | 8             | 6      | 4                      |
| 1902..... | 56.0        | 80      | 20     | 6.39          | 9.35     | 3.82  | 15         | 7             | 9      | 8                      |
| 1903..... | 55.9        | 86      | 24     | 8.92          | 16.19    | 4.17  | 13         | 9             | 9      | 8                      |
| 1904..... | 51.9        | 89      | 15     | 3.78          | 7.01     | 1.50  | 20         | 6             | 5      | 5                      |
| 1905..... | 55.5        | 90      | 17     | 2.71          | 4.83     | 0.75  | 18         | 7             | 6      | 7                      |
| 1906..... | 55.0        | 80      | 11     | 4.46          | 7.14     | 2.66  | 8          | 9             | 14     | 11                     |
| 1907..... | 50.6        | 80      | 18     | 4.46          | 7.18     | 2.70  | 22         | 5             | 4      | 7                      |
| 1908..... | 57.3        | 92      | 19     | 2.71          | 5.14     | 1.30  | 15         | 5             | 11     | 8                      |
| 1909..... | 51.2        | 84      | 18     | 1.18          | 1.82     | 0.40  | 17         | 7             | 7      | 8                      |
| 1910..... | 57.2        | 90      | 18     | 3.15          | 5.55     | 1.55  | 15         | 8             | 8      | 7                      |
| 1911..... | 53.9        | 80      | 18     | 5.49          | 8.23     | 2.61  | 10         | 9             | 12     | 12                     |
| 1912..... | 57.0        | 88      | 25     | 3.30          | 6.95     | 1.72  | 17         | 8             | 6      | 5                      |
| 1913..... | 57.8        | 83      | 25     | 7.79          | 13.84    | 2.70  | 12         | 9             | 10     | 11                     |
| 1914..... | 58.1        | 88      | 19     | 1.99          | 3.08     | 0.90  | 13         | 9             | 9      | 5                      |
| 1915..... | 56.2        | 84      | 23     | 3.03          | 5.18     | 1.89  | 17         | 7             | 7      | 9                      |
| 1916..... | 55.1        | 92      | 23     | 1.37          | 2.38     | 0.51  | 18         | 8             | 5      | 4                      |
| 1917..... | 50.7        | 84      | 22     | 6.99          | 9.74     | 4.23  | 15         | 8             | 8      | 10                     |
| 1918..... | 57.0        | 84      | 22     | 1.25          | 2.36     | 0.74  | 16         | 9             | 6      | 8                      |
| 1919..... | 59.0        | 92      | 25     | 3.43          | 4.97     | 2.01  | 9          | 8             | 14     | 13                     |
| 1920..... | 59.0        | 87      | 28     | 1.80          | 4.53     | 0.55  | 20         | 5             | 6      | 5                      |
| 1921..... | 54.1        | 82      | 16     | 0.97          | 2.18     | 0.33  | 18         | 7             | 6      | 5                      |
| 1922..... | 56.6        | 92      | 18     | 1.48          | 2.70     | 0.55  | 19         | 6             | 6      | 7                      |
| 1923..... | 53.9        | 81      | 21     | 4.25          | 6.37     | 2.35  | 16         | 8             | 7      | 8                      |
| 1924..... | 54.4        | 84      | 16     | 0.31          | 2.76     | 0.04  | 23         | 6             | 2      | 1                      |



## Climatological Data for October, 1924

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |                 |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                      |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|-----------------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest          | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                               |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                      |
| Belvidere.....                       | Warren.....     | 289             | 33                      | 53.6                         | -0.2                      | 79      | 6    | 26              | 23   | 47                       | 0.15  | -3.52                     | 0.15                 | 0                         | 1                            | 20    | 9          | 2                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                    |
| Charlotteburg.....                   | Passaic.....    | 719             | 32                      | 50.2                         | -1.4                      | 81      | 6    | 23              | 14†  | 42                       | 0.12  | -4.35                     | 0.12                 | 0                         | 1                            | 15    | 12         | 4                            | w.        |                                                                                                      |
| Culvers Lake††.....                  | Sussex.....     | 848             | 23                      | 52.3 <sup>b</sup>            | +1.0                      | 79      | 6    | 29              | 23   | 40                       | 0.25  | -3.93                     | 0.25                 | 0                         | 1                            | 26    | 3          | 2                            | n.        |                                                                                                      |
| Dover.....                           | Morris.....     | 600             | 40                      | 52.3 <sup>b</sup>            | +1.0                      | 79      | 6    | 27              | 18   | 40                       | 0.11  | -3.96                     | 0.11                 | 0                         | 1                            | 15    | 15         | 1                            | .....     |                                                                                                      |
| Layton.....                          | Sussex.....     | 480             | 23                      | 50.2                         | -1.3                      | 81      | 6    | 23              | 22†  | 48                       | 0.36  | -3.26                     | 0.36                 | 0                         | 1                            | 25    | 2          | 4                            | n.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                |
| Newton.....                          | Sussex.....     | 769             | 41                      | 55.0 <sup>d</sup>            | +2.3                      | 80      | 3†   | 30 <sup>d</sup> | 20   | 39 <sup>d</sup>          | 0.30  | -3.33                     | 0.30                 | 0                         | 1                            | 24    | 5          | 2                            | sw.       |                                                                                                      |
| Phillipsburg.....                    | Warren.....     | 363             | 41                      | 54.1                         | +0.2                      | 81      | 6    | 28              | 23   | 39                       | 0.04  | -3.52                     | 0.04                 | 0                         | 1                            | 26    | 4          | 1                            | .....     |                                                                                                      |
| Sussex.....                          | Sussex.....     | 442             | 30                      | 52.8 <sup>d</sup>            | -0.4                      | 82      | 6    | 25 <sup>e</sup> | 18   | 50                       | §     |                           |                      | 0                         |                              |       |            |                              | nw.       |                                                                                                      |
| Means and extremes.....              |                 |                 |                         | 52.6                         | 0.0                       | 82      | 6    | 23              | 14†  | 50                       | 0.19  | -3.69                     | 0.36                 | 0                         | 1                            | 22    | 7          | 2                            | n.        |                                                                                                      |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                      |
| Bergen Point††.....                  | Hudson.....     | 37              | 27                      | 56.4                         | +0.2                      | 82      | 6    | 34              | 23   | 35                       | 0.29  | -4.38                     | 0.29                 | 0                         | 2                            | 11    | 20         | 0                            | nw.       | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                           |
| Boonton.....                         | Morris.....     | 400             | 34                      | 52.0                         | -0.8                      | 80      | 6    | 25              | 23   | 42                       | 0.29  | -1.82                     | 1.95                 | 0                         | 2                            | 23    | 1          | 7                            | nw.       |                                                                                                      |
| Chatham.....                         | Morris.....     | 185             | 20                      | 52.0                         | -0.8                      | 80      | 6    | 25              | 23   | 42                       | 0.22  | -3.99                     | 0.22                 | 0                         | 1                            | 29    | 2          | 0                            | .....     |                                                                                                      |
| Elizabeth.....                       | Union.....      | 45              | 45                      | 54.8                         | -0.6                      | 82      | 6    | 30              | 21   | 35                       | 0.23  | -2.63                     | 0.23                 | 0                         | 1                            | 22    | 8          | 1                            | nw.       |                                                                                                      |
| Flemington.....                      | Hunterdon.....  | 140             | 38                      | 55.4                         | -0.6                      | 83      | 6    | 29              | 23   | 43                       | 0.22  | -3.41                     | 0.22                 | 0                         | 1                            | 25    | 5          | 1                            | n.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                     |
| Highwood††.....                      | Bergen.....     | 90              | 36                      | 51.2                         | -2.2                      | 79      | 6    | 23              | 23   | 39                       | 0.28  | -4.14                     | 0.28                 | 0                         | 1                            | 18    | 10         | 3                            | nw.       |                                                                                                      |
| Jersey City.....                     | Hudson.....     | 10              | 26                      | 57.0                         | +0.7                      | 79      | 6    | 34              | 23   | 26                       | 0.30  | -3.38                     | 0.30                 | 0                         | 1                            | 22    | 8          | 1                            | nw.       |                                                                                                      |
| Lambertville.....                    | Hunterdon.....  | 370             | 37                      | 53.9                         | -0.7                      | 79      | 6    | 32              | 21†  | 30                       | 0.25  | -3.23                     | 0.25                 | 0                         | 1                            | 21    | 5          | 2                            | nw.       |                                                                                                      |
| Little Falls.....                    | Passaic.....    | 180             | 21                      | 53.8 <sup>b</sup>            | -1.1                      | 82      | 6    | 26              | 23   | 45                       | 2.76  | -1.75                     | 2.52                 | 0                         | 2                            | 20    | 10         | 1                            | nw.       | Passaic Consol. Water Co.<br>N. J. Experiment Station.<br>Hackensack Water Co.<br>Marion T. Probert. |
| New Brunswick.....                   | Middlesex.....  | 110             | 71                      | 54.4                         | -0.4                      | 81      | 6    | 29              | 23   | 39                       | 0.28  | -3.30                     | 0.28                 | 0                         | 1                            | 24    | 6          | 1                            | n.        |                                                                                                      |
| New Milford†††.....                  | Bergen.....     | 9               | 4                       | 54.4                         | -0.4                      | 81      | 6    | 29              | 23   | 39                       | 0.28  | -3.30                     | 0.28                 | 0                         | 2                            | 20    | 10         | 1                            | n.        |                                                                                                      |
| Paterson.....                        | Passaic.....    | 80              | 53                      | 56.1                         | +0.9                      | 82      | 6    | 32              | 23   | 35                       | 0.25  | -3.84                     | 0.25                 | 0                         | 1                            | 17    | 5          | 9                            | nw.       |                                                                                                      |
| Plainfield.....                      | Union.....      | 120             | 36                      | 52.5                         | -1.7                      | 80      | 6    | 24              | 23   | 41                       | 0.23  | -3.92                     | 0.23                 | 0                         | 1                            | 23    | 7          | 1                            | n.        | E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                       |
| Somerville.....                      | Somerset.....   | 70              | 41                      | 53.8                         | -0.5                      | 83      | 6    | 24              | 23   | 42                       | 0.26  | -3.18                     | 0.26                 | 0                         | 1                            | 25    | 6          | 0                            | w.        |                                                                                                      |
| South Orange.....                    | Essex.....      | 200             | 54                      | 53.7                         | +0.3                      | 78      | 6    | 32              | 21†  | 29                       | 0.27  | -3.57                     | 0.27                 | 0                         | 2                            | 27    | 0          | 4                            | w.        |                                                                                                      |
| Woodcliff Lake†††.....               | Bergen.....     | 100             | 4                       | 53.7                         | +0.3                      | 78      | 6    | 32              | 21†  | 29                       | 0.16  |                           | 0.16                 | 0                         | 2                            | 27    | 0          | 4                            | w.        |                                                                                                      |
| New York, N. Y.....                  |                 | 365             | 54                      | 56.8                         | +0.5                      | 78      | 6    | 36              | 23   | 24                       | 0.30  | -3.41                     | 0.30                 | 0                         | 2                            | 18    | 9          | 4                            | n.        | U. S. Weather Bureau.                                                                                |
| Means and extremes.....              |                 |                 |                         | 54.2                         | -0.5                      | 83      | 6    | 24              | 23   | 45                       | 0.57  | -3.33                     | 2.52                 | 0                         | 1                            | 22    | 7          | 2                            | nw.       |                                                                                                      |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                      |
| Belleplain.....                      | Cape May.....   | 30              | 30                      | 53.0                         | -3.3                      | 80      | 6    | 19              | 23   | 47                       | 0.07  | -3.35                     | 0.07                 | 0                         | 1                            | 23    | 4          | 4                            | sw.       | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Charles H. Dilks.                        |
| Bridgeton.....                       | Cumberland..... | 30              | 43                      | 56.6                         | -0.8                      | 82      | 6    | 30              | 21†  | 36                       | §     |                           |                      | 0                         | 1                            | 28    | 2          | 1                            | n.        |                                                                                                      |
| Burlington.....                      | Burlington..... | 12              | 38                      | 56.8 <sup>b</sup>            | -1.4                      | 81      | 6    | 29              | 23   | 38                       | 0.15  | -3.50                     | 0.15                 | 0                         | 1                            | 27    | 4          | 0                            | nw.       |                                                                                                      |
| Clayton.....                         | Gloucester..... | 130             | 28                      | 56.8 <sup>b</sup>            | -1.4                      | 81      | 6    | 29              | 23   | 38                       | §     |                           |                      | 0                         | 1                            | 27    | 4          | 0                            | nw.       |                                                                                                      |
| Hammonton.....                       | Atlantic.....   | 103             | 25                      | 53.8 <sup>b</sup>            | -1.4                      | 82      | 3    | 28              | 23   | 43                       | 0.10  | -3.45                     | 0.10                 | 0                         | 1                            | 24    | 6          | 1                            | .....     | Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.<br>James M. Armstrong.           |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 53.8 <sup>b</sup>            | -1.4                      | 82      | 3    | 28              | 23   | 43                       | 0.20  | -3.51                     | 0.20                 | 0                         | 1                            | 30    | 0          | 1                            | .....     |                                                                                                      |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 53.8                         | -1.3                      | 82      | 6    | 24              | 23   | 40                       | 0.15  | -3.71                     | 0.15                 | 0                         | 2                            | 29    | 2          | 0                            | nw.       |                                                                                                      |
| Indian Mills††.....                  | Burlington..... | 76              | 35                      | 54.4                         | -1.1                      | 84      | 6    | 25              | 21   | 43                       | 0.15  | -3.29                     | 0.15                 | 0                         | 1                            | 20    | 9          | 2                            | n.        |                                                                                                      |
| Lakewood.....                        | Ocean.....      | 54              | 20                      | 56.8                         | +2.1                      | 83      | 6    | 26              | 23   | 40                       | 0.17  | -3.42                     | 0.17                 | 0                         | 1                            | 26    | 3          | 2                            | nw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Fliek.<br>N. J. Dept. Conservation.                  |
| Moorestown.....                      | Burlington..... | 75              | 61                      | 56.8                         | +2.1                      | 83      | 6    | 26              | 23   | 40                       | 0.05  | -3.52                     | 0.05                 | 0                         | 1                            | 24    | 6          | 1                            | nw.       |                                                                                                      |
| Northfield††.....                    | Atlantic.....   | 25              | 17                      | 53.6                         |                           | 81      | 6    | 26              | 21†  | 41                       | 0.06  | -2.72                     | 0.06                 | 0                         | 1                            | 24    | 7          | 0                            | nw.       |                                                                                                      |
| Pleasantville††.....                 | Atlantic.....   | 26              | 26                      | 53.6                         |                           | 81      | 6    | 26              | 21†  | 41                       | 0.47  | -2.97                     | 0.43                 | 0                         | 2                            | 24    | 7          | 0                            | nw.       |                                                                                                      |
| Runyon††.....                        | Middlesex.....  | 18              | .....                   | 51.8 <sup>b</sup>            |                           | 82      | 6    | 16              | 23   | 45                       | 0.20  |                           | 0.20                 | 0                         | 1                            | 26    | 4          | 1                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes          |
| Trenton.....                         | Mercer.....     | 190             | 52                      | 56.2                         | +0.6                      | 79      | 6    | 34              | 23   | 30                       | 0.20  | -3.21                     | 0.20                 | 0                         | 1                            | 19    | 10         | 2                            | n.        |                                                                                                      |
| Tuckerton.....                       | Ocean.....      | 23              | 31                      | 54.4                         | -1.7                      | 82      | 6    | 26              | 24   | 45                       | 0.09  | -3.44                     | 0.09                 | 0                         | 1                            | 27    | 4          | 0                            | w.        |                                                                                                      |
| Vineland.....                        | Cumberland..... | 109             | 55                      | 57.8 <sup>b</sup>            | +1.8                      | 82      | 6    | 29              | 21†  | 37                       | 0.07  | -3.27                     | 0.07                 | 0                         | 1                            | 24    | 6          | 1                            | n.        |                                                                                                      |
| Philadelphia, Pa.....                |                 | 117             | 54                      | 58.6                         | +0.8                      | 80      | 6    | 37              | 23   | 25                       | 0.09  | -3.01                     | 0.08                 | 0                         | 2                            | 18    | 8          | 5                            | n.        | U. S. Weather Bureau.                                                                                |
| Means and extremes.....              |                 |                 |                         | 54.9                         | -0.6                      | 84      | 6    | 16              | 23   | 47                       | 0.15  | -3.34                     | 0.43                 | 0                         | 1                            | 25    | 5          | 1                            | nw.       |                                                                                                      |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                      |
| Asbury Park.....                     | Monmouth.....   | 22              | 35                      | 55.6 <sup>b</sup>            | -0.2                      | 82      | 6    | 32              | 21   | 26                       | 0.10  | -3.61                     | 0.10                 | 0                         | 1                            | 30    | 0          | 1                            | e.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.      |
| Atlantic City.....                   | Atlantic.....   | 16              | 50                      | 56.7                         | -0.2                      | 74      | 12   | 35              | 22   | 29                       | 0.05  | -3.25                     | 0.05                 | 0                         | 1                            | 23    | 6          | 2                            | nw.       |                                                                                                      |
| Cape May City.....                   | Cape May.....   | 17              | 40                      | 58.4                         | -1.2                      | 77      | 17   | 35              | 23   | 26                       | 0.69  | -2.61                     | 0.63                 | 0                         | 2                            | 24    | 4          | 3                            | n.        |                                                                                                      |
| Long Branch.....                     | Monmouth.....   | 25              | 17                      | 54.8                         | -1.5                      | 82      | 6    | 32              | 21   | 27                       | 0.15  | -3.90                     | 0.15                 | 0                         | 1                            | 21    | 8          | 2                            | nw.       |                                                                                                      |
| Sandy Hook.....                      | Monmouth.....   | 22              | 26                      | 56.9                         | +0.1                      | 76      | 6    | 40              | 21   | 22                       | 0.17  | -3.08                     | 0.17                 | 0                         | 1                            | 20    | 10         | 1                            | nw.       | U. S. Weather Bureau.                                                                                |
| Means and extremes.....              |                 |                 |                         | 56.5                         | -0.6                      | 82      | 6    | 32              | 21   | 29                       | 0.23  | -3.29                     | 0.63                 | 0                         | 1                            | 23    | 6          | 2                            | nw.       |                                                                                                      |
| For the State.....                   |                 |                 |                         | 54.4                         | -0.4                      | 84      | 6    | 16              | 23   | 50                       | 0.31  | -3.39                     | 2.52                 | 0                         | 1                            | 23    | 6          | 2                            | nw.       |                                                                                                      |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



## Daily Precipitation for October, 1924

| Stations                                   | Drainage Basin  | Day of month |   |   |     |   |   |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Total |      |
|--------------------------------------------|-----------------|--------------|---|---|-----|---|---|-----|-----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|------|
|                                            |                 | 1            | 2 | 3 | 4   | 5 | 6 | 7   | 8   | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |   |     |   |   |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |
| Belvidere.....                             | Delaware.....   |              |   |   |     |   |   |     | .15 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.15  |      |
| Charlotteburg.....                         | Passaic.....    |              |   |   |     |   |   |     | .12 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.12  |      |
| Culvers Lake.....                          | Delaware.....   |              |   |   |     |   |   |     | .25 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.25  |      |
| Dover.....                                 | Passaic.....    |              |   |   |     |   |   |     | .11 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.11  |      |
| Layton.....                                | Delaware.....   |              |   |   |     |   |   | T.  | .36 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | T. |    | 0.36  |      |
| Newton.....                                | Delaware.....   |              |   |   |     |   |   |     | .30 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.30  |      |
| Phillipsburg.....                          | do.....         |              |   |   |     |   |   | T.  | .04 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | T. |    |    |    | 0.04  |      |
| Sussex.....                                | Hudson.....     | .01          |   |   |     |   |   |     | §   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | §     |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |   |     |   |   |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |
| Berge Point**.....                         | Coast.....      |              |   |   |     |   |   | .02 | .27 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.29  |      |
| Boonton   .....                            | Passaic.....    | 1.95         |   |   |     |   |   |     | .14 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.09  |      |
| Chatham   .....                            | do.....         |              |   |   |     |   |   |     | .22 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.22  |      |
| Elizabeth.....                             | Coast.....      |              |   |   |     |   |   |     | .23 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.23  |      |
| Flemington.....                            | Raritan.....    |              |   |   |     |   |   |     | .22 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.22  |      |
| Highwood.....                              | Hackensack..... |              |   |   |     |   |   |     | .28 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.28  |      |
| Jersey City.....                           | Coast.....      |              |   |   |     |   |   |     | .30 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.30  |      |
| Lambertville.....                          | Delaware.....   |              |   |   |     |   |   |     | .25 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | T. |    | 0.25  |      |
| Little Falls,   .....                      | Passaic.....    | 2.52         |   |   |     |   |   |     | .24 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2.76  |      |
| New Brunswick.....                         | Raritan.....    |              |   |   |     |   |   |     | .28 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.28  |      |
| New Milford**.....                         | Hackensack..... |              |   |   |     |   |   | .01 | .27 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.28  |      |
| Paterson.....                              | Passaic.....    |              |   |   |     |   |   |     | .25 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.25  |      |
| Plainfield.....                            | Raritan.....    |              |   |   |     |   |   |     | .23 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.23  |      |
| Somerville.....                            | Raritan.....    |              |   |   |     |   |   |     | .26 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.26  |      |
| South Orange.....                          | Rahway.....     |              |   |   |     |   |   | .01 | .26 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.27  |      |
| Woodcliff Lake**.....                      | Hackensack..... |              |   |   |     |   |   | .02 | .14 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.16  |      |
| New York, N. Y***.....                     | Coast.....      |              |   |   |     |   |   | .02 | .28 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.30  |      |
| <i>The Southern Interior.</i>              |                 |              |   |   |     |   |   |     |     |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |   |   |     |   |   |     | .07 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | T. |    | 0.07  |      |
| Bridgeton.....                             | Coast.....      |              |   |   |     |   |   |     | §   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | T. |    | §     |      |
| Burlington.....                            | Delaware.....   |              |   |   |     |   |   |     | .15 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.15  |      |
| Clayton.....                               | Delaware.....   |              |   |   |     |   |   |     | .10 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.10  |      |
| Hammondtown.....                           | Mullica.....    |              |   |   |     |   |   |     | .20 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.20  |      |
| Hightstown.....                            | Raritan.....    |              |   |   |     |   |   | .02 | .13 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.15  |      |
| Imlaystown.....                            | Delaware.....   |              |   |   | .02 |   |   |     | .13 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 0.15 |
| Indian Mills.....                          | Mullica.....    |              |   |   |     |   |   |     | .15 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 0.15  |      |
| Lakewood.....                              | Metedeconk..... |              |   |   |     |   |   |     | .17 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture |                                         | Sun-<br>shine                          |                                   |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------|-----------------------------------------|----------------------------------------|-----------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |          | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshin |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date     |                                         |                                        |                                   |
| Atlantic City.....    | 30.19        | 30.55   | 31   | 29.79  | 20   | 14              | 39             | n.        | 20       | 74                                      | 69                                     | 86                                |
| Cape May City.....    | 30.24        | 30.58   | 31   | 29.88  | 20   | 6               | 17             | nw.       | 1        | 82                                      | 73                                     | .....                             |
| Long Branch.....      |              |         |      |        |      |                 | 37             | ne.       | 29       |                                         |                                        |                                   |
| New York, N. Y.....   | 30.19        | 30.58   | 31   | 29.79  | 20   | 14              | 48             | nw.       | 20       | 66                                      | 52                                     | 83                                |
| Philadelphia, Pa..... | 30.21        | 30.56   | 31   | 29.83  | 20   | 8               | 35             | n.        | 20       | 63                                      | 52                                     | 82                                |
| Sandy Hook.....       | 30.18        | 30.58   | 30   | 29.78  | 20   | 13              | 46             | nw.       | 20       | 71                                      | 66                                     | 86                                |
| Trenton.....          | 30.19        | 30.55   | 31   | 29.79  | 20   | 9               | 36             | n.        | 20       | 70                                      | 62                                     | 81                                |



## Daily Temperatures for October, 1924

| Stations                             | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30                | 31   | Mean              |                   |
|--------------------------------------|--------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |      |                   |                   |
| Belvidere.....                       | Maximum..... | 59 | 76 | 70 | 74 | 79 | 72 | 64 | 60 | 73 | 76 | 73 | 65 | 67 | 71 | 71 | 73 | 66 | 71 | 64 | 55 | 55 | 62 | 71 | 75 | 78 | 77 | 77 | 70 | 58                | 52   | 68.5 <sup>a</sup> |                   |
|                                      | Minimum..... | 39 | 36 | 43 | 44 | 51 | 42 | 46 | 49 | 35 | 34 | 41 | 47 | 32 | 31 | 38 | 39 | 38 | 30 | 46 | 34 | 30 | 26 | 27 | 35 | 31 | 32 | 46 | 48 | 49                | 44   | 38.8              |                   |
| Charlotteburg.....                   | Maximum..... | 57 | 71 | 73 | 70 | 76 | 81 | 72 | 60 | 67 | 65 | 69 | 73 | 65 | 64 | 70 | 67 | 65 | 63 | 58 | 57 | 58 | 62 | 71 | 72 | 64 | 67 | 63 | 50 | 65.5              |      |                   |                   |
|                                      | Minimum..... | 40 | 36 | 33 | 35 | 48 | 50 | 45 | 47 | 33 | 36 | 40 | 35 | 25 | 23 | 28 | 30 | 33 | 23 | 25 | 29 | 31 | 31 | 29 | 31 | 39 | 37 | 31 | 30 | 47                | 43   | 34.9              |                   |
| Dover.....                           | Maximum..... | 63 | 69 | 71 | 66 | 73 | 79 | 71 | 62 | 62 | 69 | 73 | 71 | 64 | 68 | 64 | 69 | 65 | 66 | 57 | 57 | 52 | 66 | 70 | 72 | 69 | 76 | 58 | 52 | 66.2 <sup>a</sup> |      |                   |                   |
|                                      | Minimum..... | 41 | 37 | 40 | 44 | 46 | 55 | 47 | 41 | 37 | 37 | 45 | 45 | 32 | 29 | 34 | 35 | 40 | 27 | 34 | 33 | 33 | 30 | 34 | 39 | 41 | 32 | 36 | 47 | 45                | 36   | 38.4 <sup>a</sup> |                   |
| Layton.....                          | Maximum..... | 58 | 72 | 76 | 72 | 78 | 81 | 69 | 57 | 63 | 74 | 68 | 78 | 63 | 68 | 70 | 68 | 66 | 68 | 65 | 62 | 50 | 60 | 68 | 72 | 73 | 73 | 69 | 47 | 45                | 36   | 38.4 <sup>a</sup> |                   |
|                                      | Minimum..... | 40 | 31 | 39 | 39 | 44 | 50 | 40 | 47 | 31 | 31 | 37 | 28 | 28 | 29 | 34 | 36 | 24 | 36 | 26 | 29 | 23 | 23 | 24 | 32 | 28 | 25 | 34 | 39 | 43                | 33.9 |                   |                   |
| Newton.....                          | Maximum..... | 58 | 74 | 80 | 78 | 75 | 80 | 74 | 65 | 70 | 71 | 80 | 75 | 64 | 71 | 70 | 73 | 73 | 72 | 65 | 55 | 53 | 64 | 70 | 72 | 70 | 79 | 49 | 43 | 40                | 50   | 69.7 <sup>d</sup> |                   |
|                                      | Minimum..... | 37 | 39 | 45 | 48 | 50 | 48 | 46 | 36 | 40 | 40 | 46 | 35 | 32 | 37 | 42 | 44 | 44 | 35 | 30 | 38 | 33 | 31 | 35 | 41 | 43 | 40 | 49 | 46 | 43                | 40   | 42 <sup>d</sup>   |                   |
| Phillipsburg.....                    | Maximum..... | 60 | 71 | 71 | 76 | 77 | 81 | 71 | 62 | 69 | 75 | 78 | 78 | 66 | 70 | 67 | 71 | 68 | 71 | 62 | 50 | 53 | 61 | 68 | 72 | 73 | 70 | 71 | 68 | 55                | 54   | 68.0 <sup>a</sup> |                   |
|                                      | Minimum..... | 42 | 38 | 48 | 45 | 40 | 52 | 46 | 48 | 38 | 38 | 45 | 46 | 34 | 33 | 42 | 40 | 40 | 31 | 43 | 38 | 33 | 34 | 28 | 32 | 36 | 34 | 45 | 50 | 46                | 46   | 40.2              |                   |
| Sussex.....                          | Maximum..... | 60 | 71 | 78 | 75 | 77 | 82 | 71 | 65 | 66 | 72 | 78 | 70 | 65 | 68 | 72 | 67 | 67 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68                | 68   | 68                | 68                |
|                                      | Minimum..... | 41 | 34 | 38 | 39 | 44 | 50 | 42 | 49 | 32 | 31 | 38 | 38 | 28 | 26 | 31 | 35 | 25 | 25 | 25 | 25 | 25 | 27 | 27 | 32 | 34 | 28 | 38 | 41 | 46                | 44   | 36.1 <sup>e</sup> |                   |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |      |                   |                   |
| Bergen Point.....                    | Maximum..... | 59 | 73 | 74 | 70 | 76 | 82 | 75 | 64 | 61 | 64 | 75 | 71 | 61 | 67 | 69 | 70 | 72 | 66 | 61 | 62 | 52 | 62 | 71 | 72 | 74 | 69 | 72 | 67 | 57                | 67.1 |                   |                   |
|                                      | Minimum..... | 49 | 49 | 47 | 49 | 54 | 53 | 52 | 42 | 47 | 52 | 51 | 42 | 40 | 43 | 44 | 46 | 50 | 49 | 43 | 36 | 37 | 34 | 36 | 43 | 44 | 42 | 53 | 54 | 42                | 42   | 45.6              |                   |
| Boonton§§.....                       | Maximum..... | 59 | 73 | 76 | 70 | 72 | 80 | 73 | 60 | 66 | 70 | 75 | 72 | 63 | 67 | 72 | 65 | 68 | 67 | 67 | 60 | 49 | 52 | 61 | 70 | 72 | 74 | 70 | 72 | 70                | 51   | 54                | 66.8              |
|                                      | Minimum..... | 42 | 33 | 37 | 41 | 40 | 48 | 41 | 51 | 35 | 39 | 43 | 44 | 33 | 28 | 32 | 34 | 35 | 26 | 33 | 32 | 31 | 36 | 25 | 28 | 36 | 40 | 30 | 39 | 50                | 45   | 41                | 37.1              |
| Elizabeth.....                       | Maximum..... | 59 | 73 | 76 | 73 | 74 | 82 | 73 | 69 | 64 | 73 | 78 | 75 | 64 | 68 | 71 | 67 | 73 | 66 | 75 | 65 | 54 | 53 | 58 | 65 | 73 | 74 | 70 | 71 | 68                | 57   | 56                | 68.3              |
|                                      | Minimum..... | 43 | 38 | 42 | 50 | 45 | 55 | 53 | 53 | 38 | 38 | 48 | 44 | 34 | 35 | 38 | 39 | 43 | 34 | 48 | 38 | 30 | 33 | 31 | 32 | 38 | 39 | 37 | 43 | 50                | 48   | 40                | 41.2              |
| Flemington.....                      | Maximum..... | 62 | 75 | 77 | 76 | 78 | 83 | 73 | 67 | 67 | 71 | 76 | 73 | 65 | 69 | 73 | 70 | 71 | 70 | 73 | 64 | 53 | 54 | 64 | 73 | 75 | 78 | 76 | 74 | 70                | 59   | 59                | 69.9              |
|                                      | Minimum..... | 42 | 39 | 42 | 48 | 45 | 49 | 47 | 51 | 39 | 40 | 46 | 52 | 37 | 32 | 40 | 38 | 41 | 31 | 50 | 38 | 37 | 35 | 29 | 35 | 35 | 36 | 42 | 50 | 47                | 44   | 41.0              |                   |
| Highwood.....                        | Maximum..... | 58 | 69 | 70 | 69 | 70 | 79 | 71 | 60 | 62 | 66 | 72 | 67 | 58 | 64 | 66 | 64 | 69 | 66 | 66 | 61 | 50 | 52 | 58 | 67 | 71 | 72 | 68 | 71 | 67                | 55   | 56                | 65.0              |
|                                      | Minimum..... | 44 | 38 | 40 | 41 | 42 | 56 | 45 | 44 | 37 | 40 | 44 | 42 | 33 | 30 | 34 | 36 | 38 | 29 | 42 | 32 | 26 | 29 | 23 | 30 | 33 | 33 | 30 | 41 | 49                | 42   | 37.5              |                   |
| Jersey City.....                     | Maximum..... | 59 | 71 | 72 | 68 | 72 | 79 | 72 | 64 | 64 | 69 | 73 | 69 | 61 | 65 | 69 | 66 | 70 | 64 | 67 | 60 | 49 | 52 | 59 | 68 | 71 | 72 | 69 | 72 | 66                | 58   | 57                | 65.9              |
|                                      | Minimum..... | 46 | 45 | 55 | 56 | 52 | 56 | 56 | 52 | 43 | 47 | 53 | 52 | 44 | 43 | 49 | 52 | 51 | 45 | 54 | 40 | 36 | 39 | 34 | 44 | 48 | 53 | 54 | 55 | 52                | 45   | 44                | 48.2              |
| Lambertville.....                    | Maximum..... | 57 | 69 | 71 | 70 | 73 | 79 | 70 | 59 | 64 | 68 | 73 | 70 | 60 | 63 | 66 | 65 | 68 | 66 | 66 | 59 | 46 | 50 | 56 | 64 | 67 | 69 | 69 | 70 | 65                | 54   | 56                | 64.6              |
|                                      | Minimum..... | 41 | 41 | 48 | 50 | 47 | 53 | 50 | 43 | 39 | 42 | 49 | 48 | 37 | 36 | 44 | 42 | 40 | 36 | 47 | 43 | 32 | 34 | 32 | 39 | 44 | 46 | 46 | 49 | 52                | 46   | 42                | 43.2              |
| Little Falls§§.....                  | Maximum..... | 60 | 77 | 79 | 72 | 75 | 82 | 79 | 65 | 67 | 75 | 76 | 74 | 64 | 69 | 73 | 72 | 75 | 66 | 69 | 64 | 54 | 54 | 62 | 72 | 74 | 75 | 77 | 78 | 72                | 51   | 58                | 69.0 <sup>a</sup> |
|                                      | Minimum..... | 44 | 38 | 40 | 43 | 43 | 50 | 46 | 52 | 36 | 39 | 44 | 44 | 32 | 31 | 35 | 37 | 38 | 29 | 45 | 34 | 33 | 34 | 26 | 32 | 36 | 37 | 32 | 40 | 47                | 44   | 40                | 39.7              |
| New Brunswick.....                   | Maximum..... | 59 | 71 | 71 | 69 | 73 | 81 | 73 | 63 | 63 | 69 | 74 | 72 | 64 | 65 | 69 | 68 | 71 | 68 | 69 | 61 | 50 | 51 | 59 | 69 | 71 | 74 | 75 | 72 | 66                | 61   | 59                | 67.1              |
|                                      | Minimum..... | 44 | 38 | 40 | 52 | 44 | 55 | 51 | 53 | 36 | 39 | 48 | 44 | 39 | 34 | 39 | 39 | 43 | 33 | 47 | 39 | 30 | 34 | 29 | 24 | 40 | 40 | 36 | 43 | 53                | 54   | 39                | 41.6              |
| Paterson.....                        | Maximum..... | 60 | 73 | 74 | 71 | 75 | 82 | 74 | 64 | 67 | 71 | 76 | 74 | 65 | 68 | 70 | 68 | 72 | 68 | 70 | 63 | 52 | 55 | 62 | 71 | 74 | 75 | 71 | 73 | 70                | 57   | 61                | 68.6              |
|                                      | Minimum..... | 45 | 41 | 45 | 46 | 48 | 55 | 50 | 53 | 39 | 43 | 48 | 48 | 39 | 38 | 41 | 42 | 48 | 38 | 50 | 41 | 35 | 38 | 32 | 42 | 44 | 40 | 40 | 45 | 50                | 46   | 44                | 43.6              |
| Plainfield.....                      | Maximum..... | 59 | 72 | 73 | 70 | 74 | 80 | 73 | 64 | 65 | 71 | 75 | 74 | 62 | 67 | 70 | 66 | 73 | 65 | 69 | 63 | 52 | 54 | 60 | 70 | 73 | 74 | 71 | 72 | 68                | 52   | 58                | 67.4              |
|                                      | Minimum..... | 42 | 37 | 38 | 44 | 41 | 53 | 44 | 52 | 34 | 36 | 48 | 41 | 32 | 31 | 36 | 35 | 38 | 29 | 43 | 35 | 26 | 30 | 24 | 29 | 38 | 35 | 33 | 38 | 52                | 44   | 34                | 37.6              |
| Somerville.....                      | Maximum..... | 60 | 74 | 75 | 72 | 78 | 83 | 76 | 65 | 67 | 74 | 79 | 74 | 65 | 68 | 72 | 68 | 74 | 69 | 70 | 64 | 53 | 55 | 63 | 70 | 74 | 75 | 75 | 70 | 59                | 59   | 69.5              |                   |
|                                      | Minimum..... | 42 | 35 | 39 | 48 | 42 | 49 | 44 | 52 | 36 | 37 | 49 | 41 | 35 | 31 | 36 | 35 | 39 | 28 | 42 | 35 | 31 | 28 | 24 | 29 | 38 | 33 | 34 | 40 | 50                | 48   | 40                | 38.2              |
| South Orange.....                    | Maximum..... | 58 | 68 | 70 | 68 | 72 | 78 | 70 | 60 | 63 | 68 | 72 | 70 | 58 | 63 | 66 | 65 | 69 | 65 | 64 | 59 | 50 | 51 | 57 | 65 | 69 | 71 | 67 | 70 | 65                | 54   | 57                | 64.4              |
|                                      | Minimum..... | 43 | 40 | 44 | 49 | 47 | 55 | 49 | 42 | 39 | 46 | 50 | 49 | 40 | 38 | 42 | 40 | 36 | 43 | 35 | 32 | 37 | 32 | 40 | 50 | 42 | 47 | 52 | 46 | 43                | 43.0 |                   |                   |
| New York, N. Y.....                  | Maximum..... | 58 | 70 | 72 | 66 | 71 | 78 | 72 | 58 | 63 | 67 | 72 | 68 | 59 | 64 | 67 | 66 | 68 | 64 | 66 | 60 | 48 | 51 | 59 | 67 | 71 | 72 | 68 | 72 | 66                | 53   | 56                | 64.9              |
|                                      | Minimum..... | 46 | 46 | 56 | 56 | 53 | 56 | 57 | 47 | 43 | 48 | 54 | 53 | 44 | 44 | 50 | 53 | 52 | 46 | 54 | 40 | 37 | 39 | 36 | 45 | 49 | 54 | 54 | 56 | 52                | 45   | 45                | 48.7              |
| The Southern Interior.               |              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |      |                   |                   |
| Belleplain.....                      | Maximum..... | 62 | 71 | 76 | 72 | 75 | 80 | 77 | 65 | 67 | 70 | 77 | 70 | 70 | 71 | 71 | 80 | 72 | 75 | 68 | 56 | 54 | 59 | 69 | 73 | 75 | 77 | 75 | 71 | 60                | 61   | 70.2              |                   |
|                                      | Minimum..... |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |      |                   |                   |



U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXIX.

NOVEMBER, 1924.

No. 11

### GENERAL SUMMARY.

The drought of October continued practically without a break until November 22d, when rains exceeding an inch fell in nearly all portions of the State. There were showers on the 14th-15th, but these were insufficient to mitigate the damaging effects of the drought. Some stations experienced rain of but 0.2 inch in 51 days. This is by far the longest and driest period on record in this region. Except for the storm of the 22d, rain was light and the month closed with a substantial deficiency in moisture. Precipitation was deficient also in frequency of occurrence, which, with a small excess of sunshine, gave a month very favorable to out door work.

A cold period from the 17th to 20th developed some of the coldest weather ever known in this region so early in the month, and shallow ponds were sufficiently frozen for skating. On the 18th temperatures were less than 10° above zero at many places in the State, and the lowest recorded, 1°, becomes the extreme low record for the month. The cold coming so suddenly and early caused a great amount of damage in the aggregate by freezing unprotected root crops, water pipes, etc. Warm periods were mingled with the cold, and altogether the month's weather was mostly pleasant.

Storm warnings were displayed along the coast from the 21st to 23d, on the 27th and 30th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 42.9°, which was 0.2° below the normal. The highest temperature was 77° at Little Falls on the 2d and Tuckerton on the 7th, and the lowest, 1°, at Runyon on the 18th. The greatest daily range of temperature was 47° at Belleplain on the 20th. The highest monthly mean temperature was 47.0° at Cape May City, and the lowest, 39.6° at Charlotteburg and Sussex.

The temperature departure from the normal for the year 1924, to date, by sections, is: The Highlands, -1.1°; Red Sandstone Plain, -1.2°; Southern Interior, -1.1°; Sea Coast, -0.6°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 45 stations, was 2.03 inches, which was 1.07 inches below the normal. The average total snowfall at 22 selected stations was 1.3 inches, which was normal. The greatest monthly precipitation was 3.23 inches, at Tuckerton, and the least, 1.17 inches at South Orange. The greatest amount of precipitation in any 24 consecutive hours was 2.22 inches at Jersey City on the 22d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 5, or 3 less than the normal.

The precipitation accumulated departure from the normal for the year 1924, to date, by sections, is: The Highlands, -4.80 inches; Red Sandstone Plain, +0.26 inch; Southern Interior, +2.72 inches; Sea Coast, -5.40 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 14 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 62 miles per hour from the south at Atlantic City on the 22d.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 14, which was 2 more than the normal; partly cloudy, 8, or 1 less than the normal; cloudy, 8, or 1 less than the normal. The per cent of possible sunshine was 62, which was 4 per cent above the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.10 inches, or normal. The highest reading was 30.51 inches at Cape May City on the 26th, and the lowest, 29.12 inches at Trenton on the 22d.

The mean stage of the Delaware River at Phillipsburg was 1.0 foot, and the highest stage, 4.0 feet on the 25th. At Trenton the mean daily stage was 0.5 foot, which was 1.3 feet below the normal. The highest stage was 2.7 feet on the 25th.

The first killing frost of the season occurred at scattered points along the coast on the 16th and 17th. Dense fog was observed on the 1st, 6th, 7th, 11th, 12th, and 22d. Thunderstorms occurred in the eastern half of the State on the 22d, and along the coast on the 29th. A solar halo was observed on the 21st, while lunar halos were noted on the 5th, 6th, 7th, 8th, and 18th. Light sleet occurred in portions of Essex County on the 9th, and in portions of Atlantic and Ocean Counties on the 15th.

### COMPARATIVE DATA FOR NOVEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 44.8        | 76      | 18     | 4.53          | 7.90     | 2.72  | .....      | .....         | .....  | .....                  |
| 1886..... | 44.5        | 73      | 17     | 4.49          | 6.24     | 3.45  | .....      | .....         | .....  | 6                      |
| 1887..... | 41.5        | 72      | 13     | 1.94          | 2.60     | 0.95  | .....      | .....         | .....  | 10                     |
| 1888..... | 45.8        | 77      | 8      | 3.97          | 5.41     | 2.66  | .....      | .....         | .....  | 13                     |
| 1889..... | 45.7        | 69      | 13     | 8.48          | 11.45    | 4.70  | .....      | .....         | .....  | 13                     |
| 1890..... | 43.8        | 74      | 11     | 0.82          | 1.70     | 0.38  | 13         | 12            | 5      | 8                      |
| 1891..... | 42.2        | 70      | 6      | 2.39          | 3.47     | 1.54  | 12         | 10            | 8      | 4                      |
| 1892..... | 41.9        | 71      | 12     | 7.29          | 9.49     | 4.74  | 8          | 9             | 13     | 11                     |
| 1893..... | 41.8        | 70      | 11     | 3.48          | 4.53     | 2.19  | 10         | 11            | 9      | 7                      |
| 1894..... | 40.3        | 76      | 11     | 3.34          | 5.12     | 1.77  | 13         | 7             | 10     | 10                     |
| 1895..... | 45.7        | 80      | 12     | 3.17          | 5.10     | 1.56  | 12         | 7             | 11     | 10                     |
| 1896..... | 48.2        | 78      | 12     | 3.05          | 5.68     | 1.37  | 9          | 9             | 12     | 8                      |
| 1897..... | 43.8        | 74      | 10     | 4.59          | 5.95     | 2.42  | 8          | 11            | 11     | 12                     |
| 1898..... | 42.4        | 70      | 11     | 6.76          | 9.07     | 3.83  | 10         | 9             | 11     | 14                     |
| 1899..... | 44.0        | 71      | 17     | 2.29          | 4.32     | 0.72  | 15         | 8             | 7      | 7                      |
| 1900..... | 47.5        | 79      | 15     | 3.43          | 5.54     | 1.82  | 9          | 10            | 11     | 9                      |
| 1901..... | 38.5        | 69      | 10     | 2.38          | 4.23     | 1.18  | 12         | 9             | 9      | 6                      |
| 1902..... | 49.3        | 80      | 20     | 2.20          | 4.17     | 0.87  | 10         | 11            | 9      | 8                      |
| 1903..... | 39.9        | 79      | 3      | 1.26          | 2.03     | 0.75  | 16         | 8             | 6      | 6                      |
| 1904..... | 40.2        | 69      | 6      | 2.18          | 3.40     | 1.30  | 12         | 10            | 8      | 6                      |
| 1905..... | 42.1        | 70      | 6      | 1.84          | 2.86     | 0.54  | 12         | 10            | 8      | 6                      |
| 1906..... | 43.6        | 70      | 8      | 1.61          | 2.52     | 1.06  | 16         | 7             | 7      | 6                      |
| 1907..... | 43.5        | 68      | 13     | 5.65          | 6.95     | 4.19  | 10         | 8             | 12     | 13                     |
| 1908..... | 43.1        | 72      | 2      | 0.96          | 1.29     | 0.85  | 14         | 8             | 8      | 4                      |
| 1909..... | 46.4        | 80      | 12     | 2.36          | 4.33     | 1.32  | 13         | 8             | 9      | 8                      |
| 1910..... | 40.4        | 71      | 13     | 3.79          | 5.73     | 1.63  | 5          | 13            | 12     | 9                      |
| 1911..... | 41.3        | 73      | 13     | 5.17          | 6.50     | 3.17  | 8          | 11            | 11     | 10                     |
| 1912..... | 45.3        | 76      | 11     | 3.43          | 8.12     | 2.02  | 15         | 8             | 7      | 6                      |
| 1913..... | 46.2        | 77      | 21     | 2.71          | 4.89     | 1.00  | 14         | 7             | 9      | 7                      |
| 1914..... | 43.3        | 80      | 6      | 2.60          | 4.81     | 1.21  | 16         | 8             | 6      | 6                      |
| 1915..... | 44.0        | 75      | 17     | 1.69          | 3.11     | 0.96  | 14         | 8             | 8      | 8                      |
| 1916..... | 43.3        | 75      | 12     | 2.11          | 3.81     | 0.80  | 16         | 5             | 9      | 8                      |
| 1917..... | 39.8        | 68      | 9      | 0.56          | 1.15     | 0.18  | 19         | 5             | 6      | 3                      |
| 1918..... | 43.9        | 71      | 12     | 1.87          | 3.05     | 0.49  | 14         | 6             | 10     | 7                      |
| 1919..... | 43.7        | 76      | 13     | 3.74          | 6.18     | 1.98  | 13         | 7             | 10     | 11                     |
| 1920..... | 43.0        | 74      | 12     | 4.41          | 7.90     | 2.14  | 9          | 6             | 15     | 10                     |
| 1921..... | 44.3        | 79      | 18     | 4.26          | 6.69     | 2.79  | 9          | 6             | 15     | 14                     |
| 1922..... | 44.3        | 73      | 13     | 0.91          | 1.56     | 0.49  | 13         | 8             | 9      | 6                      |
| 1923..... | 43.1        | 72      | 11     | 2.51          | 4.09     | 1.10  | 11         | 8             | 11     | 7                      |
| 1924..... | 42.9        | 77      | 1      | 2.03          | 3.23     | 1.17  | 14         | 8             | 8      | 5                      |



## Climatological Data for November, 1924

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |                 |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|-----------------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest          | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Belvidere.....                       | Warren.....     | 289             | 33                      | 40.8                         | -0.3                      | 70      | 2    | 11              | 18†  | 34                       | 2.74  | -0.50                     | 1.88                 | 4.5                       | 5                            | 21    | 2          | 7                            | .....     | Miss C. S. Hixson.          |
| Charlotteburg.....                   | Passaic.....    | 719             | 32                      | 39.6                         | -0.5                      | 71      | 7    | 12              | 18†  | 36                       | 1.86  | -1.66                     | 1.49                 | 4.0                       | 4                            | 5     | 13         | 12                           | nw.       | Newark Water Dept.          |
| Culvers Lake††.....                  | Sussex.....     | 848             | 23                      | ...                          | ...                       | ...     | ...  | ...             | ...  | ...                      | 1.64  | -1.16                     | 1.22                 | 4.2                       | 6                            | 14    | 7          | 9                            | se.       | Brice E. Riker.             |
| Dover.....                           | Morris.....     | 600             | 40                      | 40.4*                        | +0.3                      | 70      | 7    | 10              | 19   | 33                       | 2.11  | -1.53                     | 1.53                 | 5.0                       | 4                            | 11    | 11         | 8                            | .....     | William C. Harris.          |
| Layton.....                          | Sussex.....     | 480             | 23                      | 40.0                         | +1.2                      | 75      | 2    | 5               | 19   | 42                       | 2.33  | -0.16                     | 1.71                 | 4.0                       | 5                            | 17    | 3          | 10                           | w.        | A. M. Depue.                |
| Newton.....                          | Sussex.....     | 769             | 41                      | 41.8*                        | +1.3                      | 72*     | 2    | 12              | 17†  | 32                       | 1.79  | -1.34                     | 1.25                 | 5.0                       | 6                            | 10    | 6          | 14                           | nw.       | Irving J. Kern.             |
| Phillipsburg.....                    | Warren.....     | 363             | 41                      | 41.7†                        | +0.5                      | 70†     | 7    | 14              | 19   | 37                       | 1.96  | -1.24                     | 1.61                 | 1.0                       | 4                            | 20    | 8          | 2                            | .....     | Town Engineer.              |
| Sussex.....                          | Sussex.....     | 442             | 30                      | 39.6*                        | -1.5                      | 71      | 1†   | 7               | 18   | 38                       | 2.07  | -1.18                     | 1.26                 | 4.2                       | 6                            | 11    | 12         | 7                            | nw.       | A. J. W. Mowatt.            |
| Means and extremes...                |                 |                 |                         | 40.6                         | +0.1                      | 75      | 2    | 5               | 19   | 42                       | 2.06  | -1.10                     | 1.88                 | 4.0                       | 5                            | 14    | 8          | 8                            | nw.       |                             |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Bergen Point††.....                  | Hudson.....     | 37              | 27                      | 44.4                         | +0.7                      | 72      | 1    | 18              | 17   | 25                       | 1.85  | -1.42                     | 1.47                 | T.                        | 5                            | 8     | 14         | 8                            | nw.       | William H. Mitchell.        |
| Boonton.....                         | Morris.....     | 400             | 34                      | 39.7                         | -1.7                      | 72      | 2    | 8               | 19   | 37                       | 1.47  | -2.10                     | 1.20                 | .....                     | 4                            | 20    | 2          | 8                            | sw.       | John Kline.                 |
| Chatham.....                         | Morris.....     | 185             | 20                      | ...                          | ...                       | ...     | ...  | ...             | ...  | ...                      | 1.55  | -1.35                     | 0.91                 | .....                     | 5                            | 22    | 2          | 6                            | .....     | Paul Molitor, Sr.           |
| Elizabeth.....                       | Union.....      | 45              | 45                      | 42.6                         | -0.9                      | 71      | 1    | 15              | 18†  | 32                       | 1.62  | -1.63                     | 1.34                 | 0.5                       | 7                            | 14    | 8          | 8                            | w.        | L. B. Bonnett.              |
| Flemington.....                      | Hunterdon.....  | 140             | 38                      | 42.6                         | -0.3                      | 74      | 1    | 12              | 19   | 36                       | 1.72  | -1.40                     | 1.08                 | 1.0                       | 5                            | 16    | 7          | 7                            | w.        | Hiram E. Deats.             |
| Highwood††.....                      | Bergen.....     | 90              | 36                      | 41.1                         | -0.9                      | 70      | 2    | 9               | 19   | 32                       | 2.23  | -1.27                     | 1.94                 | T.                        | 3                            | 12    | 7          | 11                           | sw.       | Charles J. Bates.           |
| Jersey City.....                     | Hudson.....     | 10              | 26                      | 44.1                         | -0.1                      | 70      | 2    | 18              | 17†  | 27                       | 2.55  | -0.64                     | 2.22                 | T.                        | 5                            | 15    | 10         | 5                            | nw.       | S. K. Pearson, Jr.          |
| Lambertville.....                    | Hunterdon.....  | 370             | 37                      | 41.2                         | -2.0                      | 69      | 2    | 13              | 18   | 29                       | 1.66  | -1.55                     | 1.12                 | 0.4                       | 6                            | 19    | 5          | 6                            | nw.       | Wm. J. Lauderdale.          |
| Little Falls.....                    | Passaic.....    | 180             | 21                      | 40.8*                        | -1.4                      | 77      | 2    | 11              | 19   | 40                       | 1.56  | -1.34                     | 0.92                 | 1.0                       | 6                            | 12    | 12         | 6                            | nw.       | Passaic Consolid. Water Co. |
| New Brunswick.....                   | Middlesex.....  | 110             | 71                      | 42.5                         | -0.9                      | 71      | 2    | 13              | 17†  | 34                       | 1.53  | -1.95                     | 1.10                 | 2.5                       | 6                            | 10    | 11         | 9                            | nw.       | N. J. Experiment Station.   |
| New Milford†††.....                  | Bergen.....     | 9               | 4                       | ...                          | ...                       | ...     | ...  | ...             | ...  | ...                      | 1.51  | .....                     | 1.22                 | .....                     | 2                            | ...   | ...        | ...                          | .....     | Hackensack Water Co.        |
| Paterson.....                        | Passaic.....    | 80              | 53                      | 44.3                         | +0.8                      | 72      | 1†   | 17              | 19   | 30                       | 1.67  | -1.50                     | 1.44                 | T.                        | 3                            | 13    | 4          | 13                           | nw.       | Marion T. Probert.          |
| Plainfield.....                      | Union.....      | 120             | 36                      | 40.4                         | -2.1                      | 71      | 2    | 11              | 19   | 37                       | 1.50  | -1.87                     | 1.20                 | 0.7                       | 6                            | 14    | 11         | 5                            | nw.       | E. D. Pearson.              |
| Somerville.....                      | Somerset.....   | 70              | 41                      | 41.3                         | -1.1                      | 72      | 2    | 9               | 18   | 38                       | 1.85  | -1.19                     | 1.31                 | 1.5                       | 5                            | 15    | 6          | 9                            | w.        | H. B. TenEyck.              |
| South Orange.....                    | Essex.....      | 200             | 54                      | 41.6                         | -0.2                      | 69      | 2†   | 15              | 18   | 28                       | 1.17  | -2.13                     | 0.66                 | T.                        | 7                            | 14    | 9          | 7                            | nw.       | William H. Meeder.          |
| Woodcliff Lake†††.....               | Bergen.....     | 100             | 4                       | ...                          | ...                       | ...     | ...  | ...             | ...  | ...                      | 1.88  | .....                     | 1.70                 | .....                     | 2                            | ...   | ...        | ...                          | .....     | Hackensack Water Co.        |
| New York, N. Y.....                  |                 | 365             | 54                      | 44.1                         | -0.1                      | 68      | 2    | 18              | 17   | 25                       | 2.04  | -1.40                     | 1.72                 | T.                        | 4                            | 7     | 15         | 8                            | nw.       | U. S. Weather Bureau.       |
| Means and extremes...                |                 |                 |                         | 42.0                         | -0.8                      | 77      | 2    | 8               | 19   | 40                       | 1.71  | -1.52                     | 2.22                 | 0.7                       | 5                            | 14    | 8          | 8                            | nw.       |                             |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Belleplain.....                      | Cape May.....   | 30              | 30                      | 42.2 <sup>b</sup>            | -2.3                      | 76      | 7    | 5               | 19   | 47                       | 2.37  | -0.24                     | 1.52                 | 0.1                       | 5                            | 14    | 6          | 10                           | nw.       | Thomas J. Durell.           |
| Bridgeton.....                       | Cumberland..... | 30              | 43                      | 45.7                         | +0.1                      | 75      | 7    | 19              | 19   | 32                       | 1.88  | -0.92                     | 1.00                 | T.                        | 6                            | 18    | 3          | 9                            | sw.       | Henry A. Jorden.            |
| Burlington.....                      | Burlington..... | 12              | 33                      | 44.7                         | +0.3                      | 73      | 2    | 16              | 19   | 33                       | 1.69  | -1.42                     | 1.12                 | 0                         | 4                            | 19    | 6          | 5                            | nw.       | D. S. B. McCoy.             |
| Clayton.....                         | Gloucester..... | 130             | 28                      | 45.0 <sup>a</sup>            | +0.7                      | 72      | 6    | 14†             | 19   | 40                       | 1.74  | -1.10                     | 1.04                 | T.                        | 3                            | 17    | 9          | 5                            | n.        | Charles H. Dilks.           |
| Hammononton.....                     | Atlantic.....   | 103             | 25                      | ...                          | ...                       | ...     | ...  | ...             | ...  | ...                      | 2.63  | -0.69                     | 1.41                 | 0                         | 5                            | 16    | 9          | 5                            | w.        | Charles M. Phillips.        |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 41.8                         | -1.5                      | 73      | 2    | 13              | 18   | 37                       | 2.00  | -1.31                     | 1.52                 | T.                        | 5                            | 9     | 4          | 17                           | .....     | Milton H. Cunningham.       |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 43.9*                        | +1.1                      | 72      | 2    | 16 <sup>b</sup> | 18   | 35                       | 2.15  | -1.05                     | 1.50                 | .....                     | 7                            | 19    | 9          | 2                            | nw.       | Frank M. Lawrence.          |
| Indian Mills††.....                  | Burlington..... | 76              | 35                      | 44.2                         | +1.3                      | 76      | 2    | 12              | 18†  | 39                       | 2.35  | -0.73                     | 1.45                 | T.                        | 7                            | 12    | 6          | 12                           | sw.       | James M. Armstrong.         |
| Lakewood.....                        | Ocean.....      | 54              | 20                      | 42.4                         | -0.4                      | 71      | 7    | 13              | 19   | 37                       | 2.32  | -0.14                     | 1.64                 | T.                        | 5                            | 15    | 7          | 8                            | nw.       | R. W. Holman.               |
| Moorestown.....                      | Burlington..... | 75              | 61                      | 44.3                         | +1.1                      | 71      | 4†   | 16              | 19   | 35                       | 1.75  | -1.50                     | 1.11                 | .....                     | 5                            | 14    | 9          | 7                            | nw.       | John B. Warrick.            |
| Northfield††.....                    | Atlantic.....   | 25              | 17                      | ...                          | ...                       | ...     | ...  | ...             | ...  | ...                      | 2.81  | +0.43                     | 1.66                 | T.                        | 5                            | ...   | ...        | ...                          | .....     | William L. Flick.           |
| Pleasantville††.....                 | Atlantic.....   | 26              | 26                      | 42.5                         | .....                     | 74      | 2    | 10              | 19   | 44                       | 2.96  | +0.24                     | 1.33                 | .....                     | 6                            | 14    | 10         | 6                            | sw.       | N. J. Dept. Conservation.   |
| Runyon††.....                        | Middlesex.....  | 18              | ...                     | 43.7                         | .....                     | 74      | 1    | 1               | 18   | 44                       | 1.51  | .....                     | 1.17                 | .....                     | 4                            | 12    | 11         | 7                            | w.        | N. J. Dept. Conservation.   |
| Trenton.....                         | Mercer.....     | 190             | 52                      | 41.1                         | -0.3                      | 70      | 2    | 19              | 17   | 27                       | 1.58  | -1.85                     | 1.17                 | T.                        | 6                            | 12    | 8          | 10                           | sw.       | U. S. Weather Bureau.       |
| Tuckerton.....                       | Ocean.....      | 23              | 31                      | 44.5 <sup>b</sup>            | +0.4                      | 77      | 7    | 14              | 19   | 40                       | 3.23  | +0.15                     | 2.10                 | T.                        | 6                            | 17    | 6          | 7                            | nw.       | Mrs. Sophie M. Austin.      |
| Vineland.....                        | Cumberland..... | 109             | 55                      | 46.3                         | +2.2                      | 76      | 1    | 16              | 19   | 32                       | 2.31  | -0.80                     | 1.36                 | T.                        | 5                            | 13    | 10         | 7                            | sw.       | H. C. Himes                 |
| Philadelphia, Pa.....                |                 | 117             | 54                      | 46.4                         | +0.7                      | 73      | 2    | 22              | 17   | 28                       | 1.75  | -1.31                     | 1.20                 | T.                        | 7                            | 9     | 7          | 14                           | sw.       | U. S. Weather Bureau.       |
| Means and extremes...                |                 |                 |                         | 44.0                         | +0.2                      | 77      | 7    | 1               | 18   | 47                       | 2.20  | -0.73                     | 2.10                 | T.                        | 5                            | 15    | 7          | 8                            | nw.       |                             |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |                 |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Asbury Park.....                     | Monmouth.....   | 22              | 35                      | 44.6                         | -0.2                      | 72      | 2†   | 17              | 18   | 28                       | 2.62  | -0.30                     | 2.05                 | T.                        | 4                            | 23    | 4          | 3                            | nw.       | Information Bureau.         |
| Atlantic City.....                   | Atlantic.....   | 16              | 50                      | 46.7                         | +1.1                      | 72      | 4    | 20              | 19   | 22                       | 2.55  | -0.68                     | 1.53                 | T.                        | 5                            | 13    | 8          | 9                            | nw.       | U. S. Weather Bureau.       |
| Cape May City.....                   | Cape May.....   | 17              | 40                      | 47.0                         | -0.4                      | 70      | 7    | 21              | 19   | 23                       | 2.19  | -1.03                     | 1.59                 | T.                        | 5                            | 15    | 4          | 11                           | nw.       | U. S. Weather Bureau.       |
| Long Branch.....                     | Monmouth.....   | 25              | 17                      | 44.0                         | -0.2                      | 72      | 2†   | 17              | 18   | 27                       | 2.65  | -0.87                     | 2.00                 | T.                        | 8                            | 13    | 10         | 7                            | sw.       | William D. Martin, Jr.      |
| Sandy Hook.....                      | Monmouth.....   | 22              | 26                      | 44.6                         | 0.0                       | 68      | 2    | 21              | 17   | 23                       | 2.14  | -1.05                     | 1.76                 | T.                        | 5                            | 10    | 11         | 9                            | w.        | U. S. Weather Bureau.       |
| Means and extremes...                |                 |                 |                         | 45.4                         | +0.1                      | 72      | 2†   | 17              | 18   | 28                       | 2.43  | -0.79                     | 2.05                 | T.                        | 5                            | 15    | 7          | 8                            | nw.       |                             |
| For the State.....                   |                 |                 |                         | 42.9                         | -0.2                      | 77      | 2†   | 1               | 18   | 47                       | 2.03  | -1.07                     | 2.22                 | 1.3                       | 5                            | 14    | 8          | 8                            | nw.       |                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



Daily Precipitation for November, 1924

| Stations                                   | Drainage Basin  | Day of month |   |   |   |   |   |   |   |     |     |     |     |     |     |     |     |     |    |    |    |    |      |      |     |     |    |    |    |     |     |      | Total |
|--------------------------------------------|-----------------|--------------|---|---|---|---|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|------|------|-----|-----|----|----|----|-----|-----|------|-------|
|                                            |                 | 1            | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20 | 21 | 22   | 23   | 24  | 25  | 26 | 27 | 28 | 29  | 30  | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |   |   |   |   |   |   |     |     |     |     |     |     |     |     |     |    |    |    |    |      |      |     |     |    |    |    |     |     |      |       |
| Belvidere.....                             | Delaware.....   |              |   |   |   |   |   |   |   |     |     |     | .20 | .03 |     |     | .13 |     |    |    |    |    | 1.88 |      |     |     |    |    |    | .50 |     | 2.74 |       |
| Charlotteburg.....                         | Passaic.....    |              |   |   |   |   |   |   |   | T.  |     |     | .04 | .02 |     | T.  |     |     |    |    |    |    | 1.49 |      |     |     |    |    |    | .31 |     | 1.86 |       |
| Culvers Lake.....                          | Delaware.....   |              |   |   |   |   |   |   |   | T.  |     |     | .02 | .01 |     |     | .02 |     |    |    |    |    | 1.22 | .11  | T.  |     |    |    |    | .26 |     | 1.64 |       |
| Dover.....                                 | Passaic.....    |              |   |   |   |   |   |   |   |     |     |     | .05 | .03 |     |     |     |     |    |    |    |    | 1.53 |      |     |     |    |    |    | .50 |     | 2.11 |       |
| Layton.....                                | Delaware.....   |              |   |   |   |   |   |   |   | T.  |     |     | .04 | .09 |     |     | T.  |     |    |    |    |    | 1.71 | .13  |     |     |    |    |    | .36 | T.  | 2.33 |       |
| Newton.....                                | Delaware.....   |              |   |   |   |   |   |   |   | T.  |     |     | .04 | .06 |     |     | .04 |     |    |    |    |    | 1.15 | .10  |     |     |    |    |    | .40 |     | 1.79 |       |
| Phillipsburg.....                          | do.....         |              |   |   |   |   |   |   |   | T.  |     |     | T.  | .03 |     | T.  |     |     |    |    |    |    | 1.61 | .05  |     |     |    |    |    | .27 | T.  | 1.96 |       |
| Sussex.....                                | Hudson.....     |              |   |   |   |   |   |   |   | T.  |     |     | .26 | .04 |     | .05 |     |     |    |    |    |    | 1.26 | .06  |     |     |    |    |    | .40 |     | 2.07 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |   |   |   |   |   |   |     |     |     |     |     |     |     |     |     |    |    |    |    |      |      |     |     |    |    |    |     |     |      |       |
| Bergen Point**.....                        | Coast.....      |              |   |   |   |   |   |   |   | T.  |     |     |     | .02 |     | .03 | .01 |     |    |    |    | T. | 1.47 | T.   |     |     |    |    |    | .32 |     | 1.85 |       |
| Boonton   .....                            | Passaic.....    |              |   |   |   |   |   |   |   | T.  |     |     | .02 | T.  |     |     | T.  |     |    |    |    |    | .07  | 1.20 | T.  |     |    |    |    | .18 |     | 1.47 |       |
| Chatham  .....                             | do.....         |              |   |   |   |   |   |   |   | T.  |     |     | .03 | T.  |     | .03 |     |     |    |    |    |    | .27  | .91  |     |     |    |    |    | .31 | T.  | 1.55 |       |
| Elizabeth.....                             | Coast.....      |              |   |   |   |   |   |   |   | T.  |     |     | .01 | .02 |     |     | .01 |     |    |    |    | T. | *    | 1.34 | .02 |     |    |    |    | .22 |     | 1.62 |       |
| Flemington.....                            | Raritan.....    |              |   |   |   |   |   |   |   | T.  |     |     | .02 | .02 |     | T.  |     |     |    |    |    |    | 1.08 | .08  | T.  |     |    |    |    | .52 |     | 1.72 |       |
| Highwood.....                              | Hackensack..... |              |   |   |   |   |   |   |   | T.  |     |     | T.  | .02 |     | T.  |     |     |    |    |    |    | 1.94 | T.   | T.  |     |    |    |    | .27 |     | 2.23 |       |
| Jersey City.....                           | Coast.....      |              |   |   |   |   |   |   |   | T.  |     |     | T.  | .01 |     | .01 |     |     |    |    |    |    | 2.22 |      | .02 |     |    |    |    | .29 |     | 2.55 |       |
| Lambertville.....                          | Delaware.....   |              |   |   |   |   |   |   |   | T.  |     |     | .04 | .01 |     | T.  | T.  |     |    |    |    |    | 1.12 | .08  | .03 |     |    |    |    | .38 |     | 1.66 |       |
| Little Falls.    .....                     | Passaic.....    |              |   |   |   |   |   |   |   | T.  |     |     | .03 | .03 |     |     |     |     |    |    |    |    | .38  | .92  |     |     |    |    |    | .09 | .11 | 1.56 |       |
| New Brunswick.....                         | Raritan.....    |              |   |   |   |   |   |   |   | T.  |     |     | .01 | .02 |     |     |     |     |    |    |    |    | 1.10 | .08  | .02 |     |    |    |    | .30 |     | 1.53 |       |
| New Milford.**.....                        | Hackensack..... |              |   |   |   |   |   |   |   | T.  |     |     |     | .02 |     |     |     |     |    |    |    |    | 1.22 |      |     |     |    |    |    | .29 |     | 1.51 |       |
| Paterson.....                              | Passaic.....    |              |   |   |   |   |   |   |   | T.  |     | T.  |     | .03 |     | T.  |     |     |    |    |    |    | 1.44 | T.   |     |     |    |    |    | .20 |     | 1.67 |       |
| Plainfield.....                            | Raritan.....    |              |   |   |   |   |   |   |   | T.  |     |     | .01 | .01 |     | .01 |     |     |    |    |    |    | 1.20 | T.   | .02 |     |    |    |    | .25 |     | 1.50 |       |
| Somerville.....                            | Raritan.....    |              |   |   |   |   |   |   |   | T.  |     |     |     | .02 |     | T.  | .02 |     |    |    |    |    | 1.31 | .13  |     |     |    |    |    | .37 |     | 1.85 |       |
| South Orange.....                          | Rahway.....     |              |   |   |   |   |   |   |   | T.  |     | .01 | T.  | .01 | T.  |     | .02 |     |    |    |    |    | .01  | .65  | .25 |     |    |    |    | .22 | T.  | 1.17 |       |
| Woodcliff Lake**.....                      | Hackensack..... |              |   |   |   |   |   |   |   | T.  |     |     |     |     |     |     |     |     |    |    |    |    | 1.70 |      |     |     |    |    |    | .18 |     | 1.88 |       |
| New York, N. Y***.....                     | Coast.....      |              |   |   |   |   |   |   |   | T.  |     | T.  |     | T.  | .01 | T.  |     |     |    |    |    |    | 1.72 |      | .02 |     |    |    |    | .29 | T.  | 2.04 |       |
| <i>The Southern Interior.</i>              |                 |              |   |   |   |   |   |   |   |     |     |     |     |     |     |     |     |     |    |    |    |    |      |      |     |     |    |    |    |     |     |      |       |
| Belleplain.....                            | Tuckahoe.....   |              |   |   |   |   |   |   |   | .11 |     |     |     |     |     |     | .42 |     |    |    |    |    | *    | 1.52 |     |     |    |    |    | .32 | T.  | 2.37 |       |
| Bridgeton.....                             | Coast.....      |              |   |   |   |   |   |   |   | .09 |     | .09 |     |     |     | .40 |     |     |    |    |    |    | 1.00 |      | .10 |     |    |    |    | .20 | T.  | 1.88 |       |
| Burlington.....                            | Delaware.....   |              |   |   |   |   |   |   |   |     |     |     |     |     | T.  |     | .12 |     |    |    |    |    | 1.12 | .05  |     |     |    |    |    | .40 |     | 1.69 |       |
| Clayton.....                               | Delaware.....   |              |   |   |   |   |   |   |   |     |     |     |     |     |     | .30 |     |     |    |    |    |    | 1.04 | T.   |     |     |    |    |    | .40 | T.  | 1.74 |       |
| Hammononton.....                           | Mullica.....    |              |   |   |   |   |   |   |   | T.  |     |     |     | T.  |     |     |     | .12 |    |    |    |    | .06  | 1.41 | T.  |     |    |    |    | .62 |     | 2.63 |       |
| Hightstown.....                            | Raritan.....    |              |   |   |   |   |   |   |   |     |     |     | .01 | .05 |     | .05 |     |     |    |    |    |    | 1.52 |      | .07 |     |    |    |    | .35 | T.  | 2.00 |       |
| Imlaystown.....                            | Delaware.....   |              |   |   |   |   |   |   |   |     |     |     | .02 | .07 |     | .03 |     |     |    |    |    |    | 1.50 | .13  | .02 |     |    |    |    | .38 |     | 2.15 |       |
| Indian Mills.....                          | Mullica.....    |              |   |   |   |   |   |   |   | .02 |     | T.  |     | T.  | .04 | .30 |     |     |    |    |    |    | 1.35 | .10  | .02 |     |    |    |    | .52 |     | 2.35 |       |
| Lakewood.....                              | Metedeconk..... |              |   |   |   |   |   |   |   | T.  |     | T.  | .04 |     | T.  | .10 |     |     |    |    |    |    | 1.64 |      | .02 |     |    |    |    | .42 |     | 2.32 |       |
| Moorestown.....                            | Delaware.....   |              |   |   |   |   |   |   |   |     |     |     |     | T.  | .14 |     | .03 |     |    |    |    |    | 1.11 | .05  |     |     |    |    |    | .42 |     | 1.75 |       |
| Northfield.....                            | Coast.....      |              |   |   |   |   |   |   |   | .12 |     |     |     | .39 |     |     |     |     |    |    |    |    | 1.66 |      | .01 |     |    |    |    | .63 |     | 2.81 |       |
| Pleasantville.    .....                    | Coast.....      |              |   |   |   |   |   |   |   | .07 | .01 |     |     | .40 |     | .38 |     |     |    |    |    |    | .40  | 1.33 | .04 |     |    |    |    | .52 | .21 | 2.96 |       |
| Runyon.....                                | Coast.....      |              |   |   |   |   |   |   |   |     |     |     |     | .02 |     | .38 |     |     |    |    |    |    | 1.17 |      | .02 |     |    |    |    | .30 |     | 1.51 |       |
| Trenton***.....                            | Delaware.....   |              |   |   |   |   |   |   |   | T.  |     | T.  |     | T.  | .02 | .08 | T.  |     |    |    |    |    | T.   | 1.17 |     | .02 |    |    |    | .28 | .01 | 1.58 |       |
| Tuckerton.....                             | Coast.....      |              |   |   |   |   |   |   |   | .12 |     |     |     |     | .02 | .37 |     |     |    |    |    |    | 2.10 |      | .06 |     |    |    |    | .56 |     | 3.23 |       |
| Vineland.....                              | Maurice.....    |              |   |   |   |   |   |   |   | .09 |     |     |     |     | .39 |     |     |     |    |    |    |    | 1.36 |      | .07 |     |    |    |    | .40 |     | 2.31 |       |
| Phila., Pa***.....                         | Delaware.....   |              |   |   |   |   |   |   |   | T.  |     | T.  | T.  | T.  |     | .15 | .02 |     |    |    |    |    | .02  | 1.18 |     | .01 |    |    |    | .35 | .02 | 1.75 |       |
| <i>The Sea Coast.</i>                      |                 |              |   |   |   |   |   |   |   |     |     |     |     |     |     |     |     |     |    |    |    |    |      |      |     |     |    |    |    |     |     |      |       |
| Ashbury Park.....                          | Coast.....      |              |   |   |   |   |   |   |   | T.  |     |     |     |     |     | *   | .05 |     |    |    |    |    | 2.05 |      |     |     |    |    |    | .52 |     | 2.62 |       |
| Atlantic City***.....                      | do.....         |              |   |   |   |   |   |   |   | .11 |     |     |     |     | .39 | T.  |     |     |    |    |    |    | 1.53 |      | .03 |     |    |    |    | .49 |     | 2.55 |       |
| Cape May City.....                         | do.....         |              |   |   |   |   |   |   |   | .09 |     | T.  | T.  |     | .39 | T.  |     |     |    |    |    |    | 1.59 |      | .03 |     |    |    |    | .09 | T.  | 2.29 |       |
| Long Branch.....                           | do.....         |              |   |   |   |   |   |   |   | .02 |     | .01 | T.  |     | .01 | .08 | T.  |     |    |    |    |    | T.   | 2.00 |     | .02 |    |    |    | .50 | T.  | 2.65 |       |
| Sandy Hook***.....                         | do.....         |              |   |   |   |   |   |   |   | T.  |     |     |     | .02 | .01 | T.  | T.  | T.  |    |    |    |    | T.   | 1.76 | T.  | .01 |    |    |    | .34 |     | 2.14 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                                |                                        | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-----------------------------------------|----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                         |                                        |               |
| Atlantic City.....    | 30.10        | 30.46   | 26   | 29.14  | 22   | 18              | 62             | s.        | 22   | 74                                      | 68                                     | 60            |
| Cape May City.....    | 30.15        | 30.51   | 26   | 29.34  | 22   | 9               | 40             | se.       | 22   | 78                                      | 72                                     | .....         |
| Long Branch.....      |              |         |      |        |      |                 | 56             | nw.       | 17   | .....                                   | .....                                  | 65            |
| New York, N. Y.....   | 30.07        | 30.48   | 9    | 29.15  | 22   | 19              | 77             | nw.       | 16   | 69                                      | 60                                     | 68            |
| Philadelphia, Pa..... | 30.11        | 30.49   | 8    | 29.22  | 22   | 10              | 36             | nw.       | 16   | 66                                      | 58                                     | 60            |
| Sandy Hook.....       | 30.07        | 30.50   | 9    | 29.14  | 22   | 17              | 61             | nw.       | 17   | 71                                      | 65                                     | 62            |
| Trenton.....          | 30.09        | 30.49   | 9    | 29.12  | 22   | 11              | 44             | nw.       | 17   | 76                                      | 65                                     | 64            |



## Daily Temperatures for November, 1924

| Stations                                    | 1  | 2   | 3   | 4   | 5   | 6   | 7   | 8  | 9   | 10 | 11 | 12 | 13 | 14 | 15  | 16  | 17  | 18 | 19  | 20 | 21  | 22  | 23  | 24  | 25  | 26 | 27  | 28  | 29  | 30  | 31                | Mean              |
|---------------------------------------------|----|-----|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|-----|-----|-----|----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-------------------|-------------------|
| <i>The Highlands and Kittatinny Valley.</i> |    |     |     |     |     |     |     |    |     |    |    |    |    |    |     |     |     |    |     |    |     |     |     |     |     |    |     |     |     |     |                   |                   |
| Belvidere.....                              | 69 | 70  | 51  | 65  | 57  | 64  | 69  | 61 | 39  | 57 | 58 | 65 | 64 | 50 | 58  | 54  | 39  | 32 | 40  | 48 | 55  | 57  | 48  | 48  | 45  | 37 | 45  | 41  | 39  | 33  | 52.0              |                   |
|                                             | 42 | 37  | 36  | 31  | 28  | 44  | 41  | 39 | 31  | 34 | 28 | 46 | 34 | 41 | 28  | 29  | 15  | 11 | 11  | 21 | 26  | 37  | 38  | 35  | 22  | 23 | 21  | 21  | 23  | 17  | 29.6              |                   |
| Charlotteburg.....                          | 67 | 67  | 64  | 64  | 56  | 68  | 71  | 65 | 48  | 55 | 50 | 60 | 59 | 55 | 45  | 49  | 35  | 30 | 38  | 48 | 56  | 60  | 56  | 48  | 48  | 42 | 45  | 40  | 45  | 40  | 35                | 51.1 <sup>b</sup> |
|                                             | 31 | 36  | 33  | 32  | 25  | 42  | 35  | 40 | 28  | 33 | 22 | 38 | 31 | 25 | 27  | 13  | 12  | 12 | 14  | 29 | ... | 40  | 33  | 29  | 16  | 14 | 20  | 18  | 17  | 20  | 26.8 <sup>a</sup> |                   |
| Dover.....                                  | 68 | 67  | ... | 64  | 55  | 64  | 70  | 63 | 53  | 53 | 49 | 59 | 59 | 49 | 46  | 47  | ... | 32 | 38  | 47 | 57  | 56  | 47  | 48  | 41  | 41 | 45  | 45  | 38  | 30  | 51.1 <sup>b</sup> |                   |
|                                             | 36 | 40  | 31  | 31  | 30  | 43  | 40  | 36 | 31  | 30 | 25 | 47 | 35 | 36 | 27  | 25  | 15  | 12 | 10  | 21 | 35  | 40  | 38  | 35  | 28  | 22 | 24  | 25  | 24  | 18  | 29.6              |                   |
| Layton.....                                 | 70 | 75  | 63  | 57  | 67  | 66  | 72  | 65 | 50  | 57 | 49 | 58 | 63 | 54 | 44  | 51  | 44  | 30 | 40  | 51 | 57  | 58  | 48  | 49  | 46  | 45 | 42  | 46  | 38  | 31  | 52.9              |                   |
|                                             | 36 | 33  | 32  | 23  | 33  | 44  | 40  | 39 | 29  | 32 | 21 | 41 | 28 | 31 | 28  | 25  | 14  | 7  | 5   | 16 | 23  | 37  | 37  | 34  | 28  | 18 | 18  | 22  | 21  | 15  | 27.0              |                   |
| Newton.....                                 | 70 | 72  | 49  | 66  | 59  | 68  | ... | 68 | 41  | 58 | 55 | 58 | 62 | 55 | 56  | 60  | 30  | 39 | 36  | 50 | 59  | 65  | 49  | 48  | 50  | 43 | 45  | 46  | 39  | 33  | 53.1 <sup>b</sup> |                   |
|                                             | 49 | 42  | 36  | 34  | 29  | 40  | 44  | 37 | 28  | 30 | 29 | 44 | 30 | 34 | ... | 30  | 12  | 15 | 12  | 22 | 38  | 40  | 38  | 36  | 27  | 23 | 24  | 27  | 27  | 16  | 30.6 <sup>c</sup> |                   |
| Phillipsburg.....                           | 66 | ... | 69  | 66  | 68  | 66  | ... | 70 | 62  | 42 | 56 | 58 | 57 | 51 | 47  | ... | 32  | 34 | ... | 50 | ... | ... | ... | 48  | 44  | 41 | ... | ... | ... | ... | 32                | 53.0 <sup>c</sup> |
|                                             | 46 | ... | 34  | 39  | 32  | ... | ... | 41 | 35  | 35 | 35 | 29 | 45 | 35 | 31  | 29  | 32  | 19 | 16  | 14 | 20  | 27  | 36  | ... | 37  | 30 | 26  | 26  | 24  | 27  | 32                | 30.4 <sup>c</sup> |
| Sussex.....                                 | 71 | 70  | 50  | ... | 64  | 65  | 71  | 64 | 50  | 56 | 49 | 58 | 60 | 49 | 47  | 49  | 37  | 31 | 40  | 48 | 58  | 57  | 49  | 49  | 44  | 42 | 44  | 47  | 37  | 32  | 51.3 <sup>a</sup> |                   |
|                                             | 35 | 36  | 25  | ... | 26  | 44  | 42  | 39 | 29  | 34 | 21 | 44 | 27 | 35 | 25  | 26  | 16  | 7  | ... | 19 | 28  | 36  | 39  | 35  | 28  | 19 | 20  | 21  | 21  | 15  | ...               | 27.9 <sup>a</sup> |
| <i>The Red Sandstone Plain.</i>             |    |     |     |     |     |     |     |    |     |    |    |    |    |    |     |     |     |    |     |    |     |     |     |     |     |    |     |     |     |     |                   |                   |
| Bergen Point.....                           | 72 | 70  | 51  | 66  | 58  | 65  | 70  | 61 | 45  | 53 | 53 | 62 | 59 | 52 | 45  | 47  | 40  | 35 | 42  | 48 | 56  | 57  | 47  | 45  | 50  | 44 | 49  | 48  | 40  | 40  | 52.3              |                   |
|                                             | 50 | 47  | 39  | 41  | 38  | 47  | 51  | 45 | 38  | 39 | 39 | 49 | 42 | 43 | 30  | 28  | 18  | 19 | 21  | 28 | 35  | 45  | 42  | 33  | 36  | 29 | 29  | 32  | ... | 24  | ...               | 56.3 <sup>a</sup> |
| Boonton§§.....                              | 68 | 72  | 51  | 65  | 57  | 62  | 68  | 51 | 43  | 57 | 52 | 61 | 64 | 51 | 47  | 58  | 30  | 45 | 41  | 49 | 56  | 60  | 46  | 49  | 41  | 43 | 45  | 46  | 38  | 32  | 51.6              |                   |
|                                             | 35 | 37  | 36  | 28  | 27  | 36  | 39  | 43 | 32  | 32 | 24 | 36 | 30 | 35 | 25  | 29  | 16  | 10 | 8   | 16 | 25  | 31  | 40  | 34  | 23  | 25 | 18  | 22  | 21  | 20  | ...               | 27.8              |
| Elizabeth.....                              | 71 | 70  | 54  | 68  | 60  | 61  | 68  | 65 | 48  | 52 | 54 | 62 | 62 | 51 | 52  | 47  | 47  | 31 | 35  | 48 | 54  | 58  | 53  | 48  | 46  | 39 | 49  | 46  | 38  | 37  | 52.5              |                   |
|                                             | 44 | 39  | 35  | 36  | 32  | 42  | 45  | 48 | 36  | 40 | 32 | 48 | 36 | 34 | 31  | 28  | 18  | 15 | 15  | 24 | 30  | 43  | 39  | 36  | 29  | 24 | 24  | 27  | 28  | 22  | ...               | 32.7              |
| Flemington.....                             | 74 | 73  | 54  | 68  | 62  | 66  | 72  | 62 | 46  | 58 | 52 | 58 | 64 | 58 | 48  | 52  | 47  | 38 | 41  | 53 | 61  | 58  | 52  | 52  | 46  | 45 | 46  | 51  | 41  | 35  | ...               | 54.4              |
|                                             | 38 | 40  | 36  | 33  | 29  | 38  | 40  | 46 | 34  | 36 | 31 | 47 | 39 | 38 | 25  | 28  | 18  | 14 | 12  | 19 | 25  | 40  | 39  | 35  | 29  | 25 | 20  | 25  | 25  | 20  | ...               | 30.8              |
| Highwood.....                               | 68 | 70  | 50  | 65  | 56  | 65  | 68  | 60 | 41  | 54 | 52 | 63 | 59 | 53 | 48  | 49  | 38  | 33 | 36  | 46 | 52  | 58  | 48  | 50  | 43  | 41 | 50  | 46  | 36  | 32  | ...               | 51.0              |
|                                             | 44 | 44  | 34  | 33  | 29  | 41  | 47  | 41 | 35  | 36 | 25 | 48 | 31 | 38 | 27  | 28  | 17  | 11 | 9   | 22 | 28  | 46  | 42  | 35  | 27  | 21 | 23  | 25  | 28  | 20  | ...               | 31.2              |
| Jersey City.....                            | 68 | 70  | 51  | 65  | 56  | 62  | 68  | 62 | 45  | 53 | 53 | 62 | 61 | 51 | 47  | 48  | 32  | 34 | 37  | 48 | 54  | 57  | 47  | 50  | 44  | 43 | 47  | 48  | 42  | 35  | ...               | 51.3              |
|                                             | 47 | 43  | 38  | 44  | 42  | 51  | 51  | 45 | 36  | 40 | 45 | 48 | 45 | 42 | 36  | 28  | 18  | 18 | 21  | 28 | 38  | 42  | 40  | 38  | 32  | 29 | 35  | 36  | 29  | 23  | ...               | 36.9              |
| Lambertville.....                           | 65 | 69  | 49  | 65  | 57  | 64  | 66  | 59 | 42  | 51 | 52 | 57 | 57 | 51 | 46  | 49  | 38  | 30 | 35  | 50 | 59  | 57  | 45  | 47  | 42  | 40 | 44  | 45  | 35  | 32  | ...               | 49.9              |
|                                             | 43 | 42  | 36  | 36  | 32  | 44  | 41  | 40 | 34  | 34 | 35 | 47 | 38 | 34 | 32  | 30  | 17  | 13 | 14  | 23 | 32  | 44  | 40  | 35  | 31  | 25 | 25  | 27  | 31  | 20  | ...               | 32.5              |
| Little Falls§§.....                         | 76 | 77  | 48  | 72  | 52  | 52  | 70  | 49 | 45  | 48 | 52 | 63 | 62 | 53 | 42  | ... | 30  | 30 | 42  | 50 | 59  | 62  | 45  | 50  | 43  | 43 | ... | 48  | 36  | 35  | ...               | 51.2 <sup>b</sup> |
|                                             | 41 | 40  | 37  | 32  | 30  | 39  | 40  | 47 | 44  | 33 | 28 | 47 | 31 | 37 | 28  | 27  | 17  | 17 | 11  | 21 | 26  | 32  | 41  | 36  | 27  | 22 | 24  | 24  | 20  | ... | 30.4              |                   |
| New Brunswick.....                          | 69 | 71  | 53  | 67  | 63  | 65  | 68  | 64 | 47  | 53 | 52 | 61 | 61 | 53 | 48  | 51  | 47  | 33 | 37  | 51 | 63  | 59  | 53  | 49  | 43  | 43 | 47  | 47  | 38  | 33  | ...               | 53.0              |
|                                             | 45 | 45  | 38  | 36  | 31  | 44  | 49  | 44 | 36  | 42 | 31 | 39 | 29 | 31 | 26  | 27  | 13  | 14 | 13  | 23 | 31  | 46  | 40  | 36  | 28  | 25 | 25  | 27  | 22  | ... | 32.0              |                   |
| Paterson.....                               | 72 | 71  | 54  | 69  | 58  | 66  | 72  | 65 | 45  | 59 | 52 | 64 | 61 | 55 | 49  | 50  | 49  | 35 | 39  | 49 | 53  | 58  | 53  | 52  | 44  | 45 | 50  | 49  | 41  | 34  | ...               | 53.8              |
|                                             | 46 | 42  | 38  | 39  | ... | 44  | 46  | 45 | 34  | 39 | 34 | 49 | 38 | 43 | 34  | 33  | 20  | 18 | 17  | 26 | 31  | 40  | 43  | 38  | 32  | 27 | 35  | 27  | 30  | 22  | ...               | 34.8 <sup>a</sup> |
| Plainfield.....                             | 70 | 71  | 50  | 66  | 57  | 64  | 68  | 54 | 45  | 52 | 53 | 61 | 61 | 52 | 48  | 50  | 34  | 35 | 39  | 49 | 54  | 58  | 48  | 50  | 43  | 44 | 48  | 47  | 36  | 35  | ...               | 51.4              |
|                                             | 38 | 34  | 37  | 30  | 28  | 35  | 39  | 45 | 34  | 37 | 27 | 47 | 32 | 34 | 25  | 27  | 16  | 12 | 11  | 19 | 26  | 41  | 35  | 32  | 25  | 26 | 19  | 25  | 22  | 22  | ...               | 29.3              |
| Somerville.....                             | 71 | 72  | 53  | 68  | 60  | 66  | 70  | 64 | 46  | 57 | 53 | 60 | 63 | 53 | 49  | 53  | 48  | 35 | 41  | 51 | 63  | 58  | 52  | 49  | 45  | 47 | 48  | 36  | 36  | ... | 53.7              |                   |
|                                             | 37 | 34  | 36  | 31  | 27  | 37  | 40  | 46 | 35  | 33 | 27 | 47 | 32 | 32 | 23  | 26  | 18  | 9  | 11  | 18 | 24  | 52  | 40  | 36  | 25  | 18 | 20  | 20  | 23  | 20  | ...               | 28.9              |
| South Orange.....                           | 67 | 69  | 49  | 65  | 55  | 65  | 66  | 69 | 41  | 52 | 52 | 63 | 58 | 51 | 46  | 40  | 31  | 31 | 36  | 48 | 52  | 57  | 46  | 49  | 41  | 41 | 47  | 41  | 37  | 32  | ...               | 50.2              |
|                                             | 46 | 41  | 37  | 39  | 35  | 45  | 48  | 38 | 34  | 36 | 35 | 50 | 42 | 35 | 33  | 23  | 18  | 15 | 19  | 25 | 31  | 43  | 39  | 39  | 33  | 29 | 26  | 25  | 29  | 26  | ...               | 32.9              |
| New York, N. Y.....                         | 67 | 68  | 51  | 65  | 56  | 62  | 68  | 60 | 45  | 53 | 55 | 62 | 61 | 51 | 47  | 48  | 29  | 33 | 37  | 48 | 54  | 57  | 47  | 49  | 44  | 43 | 47  | 48  | 42  | 35  | ...               | 51.1              |
|                                             | 48 | 43  | 39  | 44  | 43  | 52  | 52  | 40 | 37  | 40 | 45 | 49 | 45 | 42 | 36  | 28  | 18  | 19 | 22  | 29 | 38  | 42  | 40  | 39  | 32  | 29 | 35  | 36  | 29  | 23  | ...               | 37.1              |
| <i>The Southern Interior.</i>               |    |     |     |     |     |     |     |    |     |    |    |    |    |    |     |     |     |    |     |    |     |     |     |     |     |    |     |     |     |     |                   |                   |
| Belleplain.....                             | 69 | 74  | 64  | 72  | 61  | ... | 76  | 64 | 51  | 57 | 58 | 65 | 58 | 62 | 51  | 52  | 49  | 37 | 34  | 60 | 60  | 60  | 49  | 52  | 49  | 52 | 49  | 43  | 38  | ... | 55.9 <sup>b</sup> |                   |
|                                             | 37 | 33  | 34  | 28  | 25  | ... | 38  | 47 | 36  | 31 | 42 | 40 | 37 | 34 | 22  | 30  | 18  | 8  | 5   | 13 | 27  | 45  | 38  | 25  | ... | 15 | 17  | 24  | 22  | 23  | ...               | 28.4 <sup>b</sup> |
| Bridgeton.....                              | 70 | 70  | 60  | 72  | 65  | 70  | 75  | 63 | 50  | 57 | 60 | 65 | 65 | 62 | 46  | 60  | 50  | 36 | 42  | 56 | 60  | 60  | 50  | 54  | 48  | 41 | 52  | 50  | 43  | 40  | ...               | 56.5              |
|                                             | 42 | 47  | 38  | 40  | 35  | 47  | 50  | 47 | 35  | 36 | 38 | 50 | 40 | 44 | 32  | 32  | 20  | 19 | 22  | 30 | 43  | 36  | 35  | 32  | 24  | 27 | 29  | 32  | 25  | ... | 34.9              |                   |
| Burlington.....                             | 71 | 73  | 63  | 69  | 64  | 66  | 70  | 71 | 52  | 58 | 53 | 63 | 62 | 55 | 52  | 51  | 50  | 40 | 41  | 51 | 63  | 62  | 49  | 50  | 54  | 50 | 41  | 49  | 40  | 39  | ...               | 55.8              |
|                                             | 42 | 43  | 37  | 36  | 33  | 41  | 45  | 49 | 36  | 35 | 31 | 47 | 38 | 44 | 29  | 30  | 18  | 17 | 16  | 23 | 30  | 48  | 38  | 35  | 36  | 25 | 26  | 22  | 29  | ... | 33.6              |                   |
| Clayton.....                                | 71 | 70  | 65  | 70  | 70  | 72  | 70  | 65 | ... | 57 | 58 | 65 | 65 | 59 | ... | 52  | 48  | 42 | ... | 53 | 62  | 64  | 56  | 54  | 51  | 48 | 47  | 50  | 47  | 39  | ...               | 56.1 <sup>a</sup> |
|                                             | 35 | 30  | 29  | 38  | 33  | 48  | 43  | 44 | 32  | 34 | 38 | 48 | 41 | 34 | 31  | 29  | 19  |    |     |    |     |     |     |     |     |    |     |     |     |     |                   |                   |

\*, b, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.  
to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged

## Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

|                 |                    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |    |     |     |     |    |       |       |
|-----------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-------|-------|
| Pleasantville** | Evaporation.....   | 128 | 160 | 096 | 112 | 064 | 084 | 080 | 032 | 032 | 016 | 048 | 080 | 128 | *   | *   | *   | *   | *  | 284 | 048 | 114 | 040 | 032 | *   | *  | 188 | 040 | *   | *  | 1,756 |       |
|                 | Wind movement..... | 87  | 25  | 81  | 66  | 70  | 55  | 101 | 123 | 43  | 49  | 56  | 34  | 58  | 38  | 50  | 132 | 79  | 52 | 27  | 51  | 112 | 92  | 79  | 81  | 28 | 33  | 75  | 24  | 85 | 41    | 1,867 |
| Runyon.....     | Evaporation.....   | 070 | 075 | 096 | 090 | 096 | 032 | 030 | 090 | 060 | 060 | 030 | 000 | 032 | 020 | 032 | 032 | *   | *  | *   | 150 | 000 | 064 | 020 | 032 | *  | *   | 064 | 000 | *  | *     | 1,175 |
|                 | Wind movement..... | 44  | 62  | 87  | 43  | 31  | 26  | 50  | 28  | 31  | 103 | 25  | 10  | 19  | 33  | 34  | 54  | 161 | 40 | 12  | 35  | 43  | 95  | 116 | 50  | 46 | 28  | 73  | 19  | 17 | 82    | 1,498 |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXIX.

DECEMBER, 1924.

No. 12

### GENERAL SUMMARY.

The month opened generally fair and cold, but was followed by a warm period from the 5th to the 9th. Another warm period prevailed from the 16th to the 19th. On the 8th and 9th temperatures in the 60's occurred very generally throughout the State, but conditions more typical of winter prevailed thereafter. Two cold waves occurred, one on the 20th and the other on the night of the 25th-26th, the latter following the first appreciable snowfall of the winter. No severe extremes of cold occurred at either time. With the first cold wave, the Delaware River became frozen and continued closed for the remainder of the month. The average monthly temperature for the State was approximately normal, but was in marked contrast with December a year ago, when it was 8° warmer.

Precipitation was deficient and thereby failed to restore the lack of ground water resulting from drought in the early autumn, and water resources were therefore not plentiful at the close of the month. Rainfall was fairly evenly distributed throughout the State and through the month; only traces of snow fell in the southern half of the State, and in the northern half the amount of snow was unimportant. This deficiency of precipitation showed a corresponding stage of low water in streams and ponds.

Storm warnings were displayed along the coast on the 5th, 6th, 8th, 12th, 13th, 19th, 20th, 27th, 28th, and 31st.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 32.8°, which was 0.2° below the normal. The highest temperature was 68° at Burlington on the 9th. The lowest temperature was 4° below zero at Charlotteburg on the 29th. The greatest daily range of temperature was 39° at Belleplain on the 29th. The highest monthly mean was 36.9° at Atlantic City, and the lowest, 28.4° at Layton.

The temperature departure from the normal for the year 1924, by sections, is: The Highlands, -1.1°; Red Sandstone Plain, -1.2°; Southern Interior, -0.9°; Sea Coast, -0.6°.

### PRECIPITATION.

The mean total precipitation for the State, as deduced from observations of 44 stations, was 2.58 inches, which was 1.38 inches below the normal. The greatest monthly precipitation was 3.42 inches at Cape May City, and the least 1.85 inches at Layton. The average total snowfall of 20 selected stations was 4.3 inches, which was 2.2 inches below the normal; this average ranged from 1.0 inch in the Highlands to 0.1 inch over the Southern Interior, and the Sea Coast. The greatest precipitation accumulated in any 24 consecutive hours was 1.97 inches at Cape May City on the 24th. The average number of days on which 0.01 inch or more of precipitation fell was 8, or 1 less than the normal.

The precipitation accumulated departure from the normal for the year 1924, by sections, is: The Highlands, -6.39 inches;

Red Sandstone Plain, -1.12 inches; Southern Interior, +1.50 inches; Sea Coast, -6.85 inches.

### WIND.

The prevailing wind direction was from the northwest, which was normal. The wind movement averaged 13 miles per hour, which was 1 mile below the normal. The highest velocity, sustained for 5 consecutive minutes, was 54 miles per hour from the west at Sandy Hook on the 14th. High winds were noted also on the 5th, 8th, 13th, 19th, 20th, and 31st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 10, which was 2 less than normal; partly cloudy, 8, or 1 less than normal; cloudy, 13, which was 3 more than the normal. The per cent of possible sunshine was 44, which was 8 less than normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.19 inches, which was 0.09 inch above normal. The highest reading was 30.70 inches at Cape May City on the 26th, and the lowest, 29.25 inches at Sandy Hook on the 13th.

The mean stage of the Delaware River at Phillipsburg was 2.8 feet, and the highest stage, 3.8 feet on the 19th and 20th. At Trenton the mean daily stage was 1.4 feet, which was 1.2 feet below the normal. The highest stage was 2.2 feet on the 11th.

Dense fog occurred on the 8th, 17th and 19th. Sleet was observed at several stations throughout the State on the 5th, 24th, 25th, 30th, and 31st.

### COMPARATIVE DATA FOR DECEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 35.3        | 60      | 6      | 3.15          | 4.33     | 2.47  | .....      | .....         | .....  | .....                  |
| 1886..... | 29.1        | 60      | -2     | 3.51          | 4.65     | 1.62  | .....      | .....         | .....  | .....                  |
| 1887..... | 33.7        | 62      | 6      | 5.29          | 7.32     | 3.64  | .....      | .....         | 12     | 10                     |
| 1888..... | 34.9        | 65      | 5      | 3.69          | 4.95     | 2.05  | .....      | .....         | .....  | 8                      |
| 1889..... | 41.5        | 71      | 8      | 1.62          | 3.69     | 0.25  | .....      | .....         | .....  | 9                      |
| 1890..... | 30.9        | 56      | 3      | 3.89          | 5.74     | 2.34  | 11         | 10            | 10     | 8                      |
| 1891..... | 40.9        | 71      | 9      | 4.25          | 5.32     | 2.25  | 13         | 9             | 9      | 8                      |
| 1892..... | 30.4        | 68      | 1      | 1.87          | 3.09     | 1.30  | 9          | 11            | 11     | 6                      |
| 1893..... | 34.9        | 70      | 5      | 3.39          | 4.66     | 1.67  | 11         | 10            | 10     | 11                     |
| 1894..... | 34.8        | 66      | -3     | 4.36          | 6.39     | 1.64  | 12         | 9             | 10     | 9                      |
| 1895..... | 37.2        | 70      | 3      | 2.61          | 5.42     | 1.71  | 11         | 9             | 11     | 6                      |
| 1896..... | 31.3        | 64      | -15    | 1.45          | 2.70     | 0.85  | 14         | 9             | 8      | 4                      |
| 1897..... | 35.1        | 69      | -3     | 4.90          | 6.44     | 3.07  | 8          | 11            | 12     | 11                     |
| 1898..... | 33.3        | 66      | -2     | 3.53          | 4.85     | 2.38  | 12         | 10            | 9      | 7                      |
| 1899..... | 35.5        | 69      | -1     | 2.11          | 4.30     | 1.29  | 14         | 10            | 7      | 7                      |
| 1900..... | 34.4        | 64      | -2     | 2.59          | 3.97     | 1.47  | 14         | 10            | 7      | 6                      |
| 1901..... | 32.6        | 68      | -8     | 7.30          | 9.45     | 4.87  | 12         | 9             | 10     | 11                     |
| 1902..... | 31.7        | 62      | -11    | 7.23          | 8.99     | 5.81  | 13         | 7             | 11     | 13                     |
| 1903..... | 28.6        | 56      | -13    | 4.08          | 5.49     | 3.20  | 14         | 9             | 8      | 9                      |
| 1904..... | 27.0        | 60      | -15    | 3.19          | 5.38     | 2.06  | 10         | 7             | 14     | 12                     |
| 1905..... | 36.3        | 61      | 5      | 3.65          | 5.60     | 2.58  | 14         | 8             | 9      | 7                      |
| 1906..... | 33.0        | 70      | -5     | 3.99          | 6.18     | 2.70  | 9          | 8             | 14     | 13                     |
| 1907..... | 36.6        | 70      | -3     | 4.91          | 7.13     | 3.55  | 12         | 8             | 11     | 9                      |
| 1908..... | 34.0        | 72      | 1      | 3.63          | 5.26     | 2.10  | 10         | 8             | 13     | 11                     |
| 1909..... | 29.8        | 60      | -15    | 4.45          | 5.51     | 3.55  | 14         | 8             | 9      | 5                      |
| 1910..... | 26.5        | 58      | -14    | 2.79          | 4.60     | 1.92  | 11         | 10            | 10     | 9                      |
| 1911..... | 38.4        | 70      | 2      | 3.77          | 5.09     | 2.94  | 10         | 7             | 14     | 11                     |
| 1912..... | 36.9        | 68      | -1     | 4.73          | 6.33     | 3.40  | 12         | 9             | 10     | 9                      |
| 1913..... | 37.7        | 63      | -11    | 3.03          | 4.59     | 1.47  | 13         | 9             | 9      | 7                      |
| 1914..... | 31.1        | 66      | -9     | 5.33          | 9.12     | 2.99  | 10         | 6             | 15     | 12                     |
| 1915..... | 31.9        | 64      | 3      | 4.82          | 7.83     | 2.19  | 12         | 9             | 10     | 8                      |
| 1916..... | 32.3        | 70      | -8     | 4.61          | 6.34     | 3.35  | 13         | 8             | 10     | 11                     |
| 1917..... | 24.8        | 54      | -21    | 3.18          | 5.46     | 1.55  | 13         | 7             | 11     | 8                      |
| 1918..... | 37.5        | 66      | 9      | 3.92          | 4.94     | 3.21  | 12         | 7             | 12     | 10                     |
| 1919..... | 28.8        | 67      | -18    | 2.98          | 5.14     | 1.84  | 10         | 8             | 13     | 12                     |
| 1920..... | 36.4        | 69      | 7      | 5.10          | 6.63     | 2.86  | 11         | 8             | 12     | 8                      |
| 1921..... | 32.3        | 64      | -4     | 2.37          | 3.23     | 1.62  | 13         | 8             | 10     | 9                      |
| 1922..... | 32.5        | 65      | -8     | 3.86          | 5.26     | 3.09  | 9          | 9             | 13     | 12                     |
| 1923..... | 40.8        | 69      | 9      | 4.14          | 5.14     | 2.44  | 13         | 7             | 11     | 12                     |
| 1924..... | 32.8        | 68      | -4     | 2.58          | 3.42     | 1.85  | 10         | 8             | 13     | 8                      |



## Climatological Data for December, 1924

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 33                      | .....                        | .....                     | 54      | 8†    | 7      | 26†   | .....                    | 2.27  | -1.80                     | 0.98                 | 0.2                       | 9                            | 13    | 6          | 12                           | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 32                      | 29.0                         | -0.8                      | 59      | 9     | -4     | 29    | 38                       | 2.38  | -1.95                     | 1.03                 | 1.0                       | 8                            | 2     | 5          | 24                           | n.        |                                                                                                                          |
| Culvers Lake††.....                  | Sussex.....     | 848             | 23                      | .....                        | .....                     | .....   | ..... | -3     | 26    | .....                    | 2.13  | -1.53                     | 1.01                 | 3.4                       | 11                           | 9     | 3          | 19                           | w.        |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 40                      | 29.4                         | -0.5                      | 59      | 8†    | 4      | 28†   | 29                       | 2.78  | -1.52                     | 1.12                 | 0.5                       | 8                            | 3     | 20         | 8                            | .....     |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 23                      | 28.4                         | +1.0                      | 59      | 9     | 0      | 23    | 38                       | 1.85  | -2.09                     | 0.88                 | 0.5                       | 10                           | 7     | 4          | 20                           | w.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 41                      | 29.8                         | -0.3                      | 61      | 8     | 3      | 26    | 35                       | 2.50  | -1.21                     | 1.11                 | 1.6                       | 10                           | 6     | 11         | 14                           | nw.       |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 41                      | 31.5 <sup>d</sup>            | +0.2                      | .....   | ..... | 10     | 26†   | .....                    | 2.05  | -1.69                     | 0.92                 | T.                        | 3                            | 11    | 10         | 10                           | .....     |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 30                      | 29.1 <sup>a</sup>            | -0.8                      | 59      | 9     | 2      | 23    | 26                       | 2.61  | -0.95                     | 1.22                 | 0.4                       | 14                           | 11    | 7          | 13                           | nw.       |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 29.5                         | -0.2                      | 61      | 8     | -4     | 29    | 38                       | 2.32  | -1.59                     | 1.22                 | 1.0                       | 9                            | 8     | 8          | 15                           | nw.       |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                  | Hudson.....     | 37              | 27                      | 32.4                         | -0.6                      | 63      | 8†    | 11     | 26    | 24                       | 2.51  | -1.87                     | 1.15                 | 0.4                       | 6                            | 3     | 12         | 16                           | nw.       | William H. Mitchell.<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                               |
| Boonton.....                         | Morris.....     | 400             | 34                      | 29.4                         | -1.1                      | 60      | 8     | 3      | 29    | 35                       | 2.61  | -1.37                     | 1.09                 | .....                     | 7                            | 11    | 1          | 19                           | sw.       |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 20                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.01  | -1.16                     | 1.35                 | .....                     | 6                            | 14    | 9          | 8                            | .....     |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 45                      | 32.7                         | -0.6                      | 58      | 8†    | 9      | 26    | 21                       | 2.61  | -1.35                     | 1.28                 | 0.2                       | 7                            | 10    | 7          | 14                           | nw.       |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 38                      | 32.2                         | +0.2                      | 62      | 9     | 9      | 23†   | 29                       | 2.54  | -1.22                     | 1.04                 | T.                        | 9                            | 13    | 4          | 14                           | w.*       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                      | Bergen.....     | 90              | 36                      | 31.4                         | -0.4                      | 60      | 9     | 7      | 29    | 32                       | 2.75  | -1.46                     | 1.05                 | 0.3                       | 9                            | 7     | 3          | 21                           | sw.       |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 26                      | 34.1                         | 0.0                       | 60      | 8     | 12     | 26†   | 30                       | 2.57  | -1.36                     | 1.25                 | 1.0                       | 9                            | 8     | 12         | 11                           | nw.       |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 37                      | 31.8                         | -1.8                      | 61      | 8     | 8      | 26    | 30                       | 2.75  | -1.12                     | 0.95                 | 0.2                       | 10                           | 12    | 3          | 16                           | nw.       |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 21                      | 30.7                         | -0.8                      | 62      | 17    | 6      | 29    | 36                       | 2.45  | -1.64                     | 0.98                 | 0.5                       | 8                            | 15    | 5          | 11                           | nw.       | Passaic Consol. Water Co.<br>N. J. Experiment Station<br>Hackensack Water Co.<br>Marion T. Probert.                      |
| New Brunswick.....                   | Middlesex.....  | 110             | 71                      | 32.7                         | -0.5                      | 63      | 8     | 9      | 29    | 29                       | 2.38  | -1.29                     | 0.92                 | 0.2                       | 7                            | 12    | 8          | 11                           | sw.       |                                                                                                                          |
| New Milford††.....                   | Bergen.....     | 9               | 4                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.44  | .....                     | 0.99                 | .....                     | 6                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 53                      | 33.4                         | +0.3                      | 60      | 9     | 10     | 26    | 29                       | 2.24  | -1.82                     | 0.83                 | .....                     | 11                           | 10    | 2          | 19                           | nw.       |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 36                      | 31.5                         | -1.2                      | 61      | 8     | 6      | 29    | 29                       | 2.73  | -1.33                     | 1.16                 | 1.1                       | 11                           | 7     | 9          | 15                           | nw.       | E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                                           |
| Somerville.....                      | Somerset.....   | 70              | 41                      | 32.5                         | +0.3                      | 63      | 8     | 6      | 29    | 27                       | 2.46  | -1.39                     | 1.01                 | 0.1                       | 7                            | 14    | 5          | 12                           | w.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 54                      | 32.0                         | -0.1                      | 61      | 9     | 9      | 26    | 26                       | 2.95  | -0.97                     | 1.22                 | 0.5                       | 8                            | 12    | 4          | 15                           | nw.       |                                                                                                                          |
| Woodcliff Lake††.....                | Bergen.....     | 100             | 4                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.16  | .....                     | 0.80                 | .....                     | 6                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| New York, N. Y.....                  |                 | 365             | 54                      | 34.0                         | -1.0                      | 61      | 8     | 11     | 26    | 25                       | 2.38  | -1.07                     | 1.15                 | 0.4                       | 8                            | 5     | 10         | 16                           | nw.       | U. S. Weather Bureau.                                                                                                    |
| Means and extremes...                |                 |                 |                         | 32.1                         | -0.5                      | 63      | 8†    | 3      | 29    | 36                       | 2.57  | -1.38                     | 1.35                 | 0.4                       | 8                            | 11    | 6          | 14                           | nw.       |                                                                                                                          |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belleplain.....                      | Cape May.....   | 30              | 30                      | 33.0 <sup>a</sup>            | -2.1                      | 63      | 19    | -1     | 29    | 39                       | 3.20  | -0.75                     | 1.58                 | T.                        | 9                            | 14    | 7          | 10                           | nw.       | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                       | Cumberland..... | 30              | 43                      | 35.7                         | -0.5                      | 63      | 8     | 10     | 29    | 29                       | 2.74  | -1.08                     | 1.25                 | 0.0                       | 8                            | 13    | 11         | 7                            | w.        |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 38                      | 34.1 <sup>a</sup>            | +0.3                      | 68      | 9     | 9      | 26    | 29                       | 2.63  | -1.69                     | 1.15                 | T                         | 5                            | 15    | 10         | 6                            | nw.       |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 28                      | 33.2 <sup>b</sup>            | -1.1                      | 65      | 8     | 9      | 28    | .....                    | ..... | .....                     | 1.00                 | .....                     | .....                        | ..... | .....      | .....                        | n.        |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.27  | -0.33                     | 1.49                 | T.                        | 6                            | 17    | 11         | 3                            | w.        | Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.<br>James M. Armstrong.                               |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 32.6                         | 0.0                       | 63      | 8†    | 7      | 29    | 30                       | 2.41  | -1.28                     | 1.03                 | T.                        | 8                            | 1     | 16         | 14                           | .....     |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 32.4 <sup>d</sup>            | -0.5                      | 63      | 9     | 7      | 29    | .....                    | 2.57  | -1.10                     | 1.02                 | .....                     | 10                           | 15    | 9          | 7                            | nw.       |                                                                                                                          |
| Indian Mills††.....                  | Burlington..... | 76              | 35                      | 36.2                         | +2.4                      | 64      | 8     | 11     | 29    | 27                       | 3.05  | -1.35                     | 1.28                 | T.                        | 7                            | 9     | 5          | 17                           | sw.       |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54              | 20                      | 34.1                         | +0.6                      | 62      | 8†    | 4      | 29    | 26                       | 2.31  | -2.33                     | 1.00                 | T.                        | 8                            | 10    | 6          | 15                           | nw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                      | Burlington..... | 75              | 61                      | 33.8 <sup>b</sup>            | +0.3                      | 63      | 8†    | 9      | 29    | 30                       | 2.44  | -1.25                     | 1.02                 | T.                        | 6                            | 8     | 18         | 15                           | nw.       |                                                                                                                          |
| Northfield††.....                    | Atlantic.....   | 25              | 17                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.83  | -1.29                     | 1.58                 | T.                        | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville††.....                 | Atlantic.....   | 26              | 26                      | 33.9                         | .....                     | 64      | 19    | 3      | 29    | 33                       | 2.97  | -1.27                     | 1.07                 | T.                        | 6                            | 14    | 13         | 4                            | nw.       |                                                                                                                          |
| Runyon††.....                        | Middlesex.....  | 18              | .....                   | 31.0 <sup>c</sup>            | .....                     | 64      | 9     | -2     | 29    | 33                       | 2.35  | .....                     | 1.05                 | T.                        | 7                            | 10    | 16         | 5                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                         | Mercer.....     | 190             | 52                      | 34.8                         | +0.4                      | 64      | 8     | 11     | 28    | 26                       | 2.60  | -0.56                     | 1.03                 | 0.8                       | 8                            | 4     | 9          | 18                           | nw.       |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 31                      | 35.2                         | +0.8                      | 65      | 19    | 5      | 29    | 31                       | 2.80  | -1.71                     | 1.25                 | T.                        | 9                            | 17    | 9          | 5                            | nw.       |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 55                      | 36.3                         | +1.6                      | 63      | 8†    | 11     | 29    | 30                       | 2.67  | -1.15                     | 1.30                 | .....                     | 6                            | 13    | 10         | 8                            | nw.       |                                                                                                                          |
| Philadelphia, Pa.....                |                 | 117             | 54                      | 36.1                         | -0.2                      | 66      | 8     | 13     | 26    | 25                       | 2.18  | -0.86                     | 0.91                 | 0.2                       | 6                            | 5     | 6          | 20                           | nw.       |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 34.0                         | +0.2                      | 68      | 9     | -2     | 29    | 39                       | 2.72  | -1.22                     | 1.58                 | 0.1                       | 7                            | 11    | 10         | 10                           | nw.       |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 35                      | 34.4                         | -0.6                      | 60      | 9     | 10     | 25    | 36                       | 1.96  | -1.89                     | 0.96                 | T.                        | 8                            | 15    | 11         | 5                            | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 50                      | 36.9                         | +0.5                      | 61      | 17    | 14     | 26    | 30                       | 3.15  | -0.59                     | 1.88                 | T.                        | 9                            | 13    | 3          | 15                           | nw.       |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 40                      | 36.8                         | -1.2                      | 58      | 17    | 16     | 29    | 27                       | 3.42  | -0.36                     | 1.97                 | T.                        | 8                            | 9     | 5          | 17                           | nw.       |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 17                      | 33.4                         | -0.7                      | 60      | 8†    | 11     | 26    | 26                       | 2.18  | -2.56                     | 1.05                 | 0.3                       | 6                            | 11    | 9          | 11                           | w.        |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 26                      | 33.8                         | -0.6                      | 58      | 8     | 13     | 26    | 24                       | 2.13  | -1.83                     | 1.07                 | 0.3                       | 7                            | 4     | 8          | 19                           | w.        |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 35.1                         | -0.5                      | 61      | 17    | 10     | 25    | 36                       | 2.57  | -1.45                     | 1.97                 | 0.1                       | 8                            | 11    | 7          | 13                           | nw.       |                                                                                                                          |
| For the State.....                   |                 |                 |                         | 32.8                         | -0.2                      | 68      | 9     | -4     | 29    | 39                       | 2.58  | -1.38                     | 1.97                 | 0.4                       | 8                            | 10    | 8          | 13                           | nw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, \*, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



| Stations                                   | Drainage Basin  | Day of month |   |   |   |      |      |     |     |     |    |    |     |     |     |    |    |     |     |     |    |    |    |     |     |     |     |    |    |    |    |    |      | Total |
|--------------------------------------------|-----------------|--------------|---|---|---|------|------|-----|-----|-----|----|----|-----|-----|-----|----|----|-----|-----|-----|----|----|----|-----|-----|-----|-----|----|----|----|----|----|------|-------|
|                                            |                 | 1            | 2 | 3 | 4 | 5    | 6    | 7   | 8   | 9   | 10 | 11 | 12  | 13  | 14  | 15 | 16 | 17  | 18  | 19  | 20 | 21 | 22 | 23  | 24  | 25  | 26  | 27 | 28 | 29 | 30 | 31 |      |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |   |   |      |      |     |     |     |    |    |     |     |     |    |    |     |     |     |    |    |    |     |     |     |     |    |    |    |    |    |      |       |
| Belvidere.....                             | Delaware.....   |              |   |   |   | .26  | .72  |     | .12 | .30 |    |    | .05 | .08 |     |    |    | .12 | .02 |     |    |    |    |     | .60 | T.  |     |    |    |    |    |    | 2.27 |       |
| Charlotteburg.....                         | Passaic.....    |              |   |   |   | 1.03 |      |     | .46 |     |    |    | T.  | .10 |     |    |    | .05 | *   | .07 |    |    |    |     | *   | .67 |     |    |    |    |    |    | 2.38 |       |
| Culvers Lake.....                          | Delaware.....   | T.           |   |   |   | .16  | .85  |     | .29 | .12 | T. |    | .03 | .17 | .01 |    |    | .20 | T.  | .03 |    |    |    | T.  | .22 | .05 |     |    |    |    |    |    | 2.13 |       |
| Dover.....                                 | Passaic.....    |              |   |   |   | 1.04 | .08  |     | .50 |     |    |    |     | .18 |     |    |    | .14 | .04 |     |    |    |    |     | .75 | .05 |     |    |    |    |    |    | 2.78 |       |
| Layton.....                                | Delaware.....   | T.           |   |   |   | *    | .88  |     | .34 | .03 |    |    | .02 | .17 | T.  |    |    | .17 | .02 | .04 |    |    |    | T.  | .18 |     |     |    |    |    |    |    | 1.85 |       |
| Newton.....                                | Delaware.....   | T.           |   |   |   | .33  | .78  |     | .20 | .12 |    |    | .02 | .34 | T.  |    |    | .12 | .02 | *   |    |    |    | T.  | .48 | .09 |     |    |    |    |    |    | 2.50 |       |
| Phillipsburg.....                          | do.....         |              |   |   |   | .92  | T.   | T.  | .45 | T.  |    |    | T.  | T.  | T.  |    |    | T.  | T.  | T.  |    |    |    |     | .68 | T.  |     |    |    |    |    |    | 2.05 |       |
| Sussex.....                                | Hudson.....     |              |   |   |   | .24  | .98  | .02 | .27 | .11 |    |    | .02 | .17 | .03 |    |    | .24 | .01 | .05 |    |    |    | .04 | .40 | .03 |     |    |    |    |    |    | 2.61 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |   |   |      |      |     |     |     |    |    |     |     |     |    |    |     |     |     |    |    |    |     |     |     |     |    |    |    |    |    |      |       |
| Bergen Point**.....                        | Coast.....      |              |   |   |   | 1.15 |      | .03 | .31 |     |    |    | T.  | .11 | T.  |    |    |     | T.  | .05 |    |    |    |     | .86 | T.  |     |    |    |    |    |    | 2.51 |       |
| Boonton   .....                            | Passaic.....    |              |   |   |   | 1.09 |      |     | T.  | .44 |    |    |     | .13 | T.  |    |    | T.  | .08 | .01 | T. |    |    |     | .20 | .66 |     |    |    |    |    |    | 2.61 |       |
| Chatham  .....                             | do.....         |              |   |   |   | 1.35 |      |     | .47 |     |    |    |     | .19 |     |    |    |     |     |     |    |    |    |     | .32 | .56 |     |    |    |    |    |    | 3.01 |       |
| Elizabeth.....                             | Coast.....      |              |   |   |   | *    | 1.28 | T.  | .08 | .34 |    |    | T.  | .12 | T.  |    |    | .04 | T.  |     |    |    |    |     | *   | .83 |     |    |    |    |    |    | 2.61 |       |
| Flemington.....                            | Raritan.....    |              |   |   |   | .19  | .85  | T.  | T.  | .37 |    |    |     | .14 | .02 |    |    | T.  | T.  | .02 |    |    |    |     | .89 | T.  |     |    |    |    |    |    | 2.54 |       |
| Highwood.....                              | Hackensack..... | T.           |   |   |   | .52  | .53  |     | .11 | .20 |    | T. | T.  | .42 | .02 |    |    | .13 | T.  |     |    |    |    | T.  | T.  | .80 | .02 |    |    |    |    |    |      | 2.75  |
| Jersey City.....                           | Coast.....      | T.           |   |   |   | .43  | .82  | T.  | .12 | .07 |    | T. | T.  | .07 | .01 |    |    | .10 | T.  | T.  |    |    |    | T.  | .93 | .02 |     |    |    |    |    |    | 2.57 |       |
| Lambertville.....                          | Delaware.....   | .01          |   |   |   | *    | .50  | .50 | .15 | .27 | T. |    | T.  | .13 | T.  |    |    | .21 | T.  |     |    |    |    |     | .35 | .03 |     |    |    |    |    |    |      |       |

### MISCELLANEOUS DATA

| Stations              | Pressure     |         |       |        |       | Wind            |                |           | Moisture                                |                                        | Sun-<br>shine                      |       |
|-----------------------|--------------|---------|-------|--------|-------|-----------------|----------------|-----------|-----------------------------------------|----------------------------------------|------------------------------------|-------|
|                       | Monthly mean | Highest | Date  | Lowest | Date  | Hourly velocity | Highest        |           | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |       |
|                       |              |         |       |        |       |                 | Miles per hour | Direction |                                         |                                        |                                    | Date  |
| Atlantic City.....    | 30.18        | 30.69   | 26    | 29.30  | 13    | 16.4            | 51             | ne.       | 31                                      | 74                                     | 66                                 | 44    |
| Cape May City.....    | 30.24        | 30.70   | 26    | 29.41  | 13    | 8.6             | 34             | s.        | 5                                       | 72                                     | 74                                 | ..... |
| Long Branch.....      | .....        | .....   | ..... | .....  | ..... | .....           | 44             | nw.       | 14                                      | .....                                  | .....                              | ..... |
| New York, N. Y.....   | 30.16        | 30.67   | 26    | 29.26  | 13    | 19.8            | 72             | nw.       | 14                                      | 67                                     | 61                                 | 53    |
| Philadelphia, Pa..... | 30.06        | 30.73   | 26    | 29.29  | 13    | 9.8             | 33             | nw        | 14                                      | 66                                     | 60                                 | 34    |
| Sandy Hook.....       | 30.16        | 30.67   | 26    | 29.25  | 13    | 17.4            | 54             | w.        | 14                                      | 70                                     | 64                                 | 43    |
| Trenton.....          | 30.19        | 30.68   | 26    | 29.26  | 13    | 8.2             | 45             | w.        | 14                                      | 69                                     | 63                                 | 46    |



## Daily Temperatures for December, 1924

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7     | 8  | 9  | 10 | 11    | 12 | 13 | 14    | 15    | 16    | 17 | 18    | 19 | 20    | 21 | 22    | 23 | 24 | 25 | 26 | 27    | 28    | 29    | 30 | 31                | Mean  |  |
|--------------------------------------|---------|----|----|----|----|----|-------|----|----|----|-------|----|----|-------|-------|-------|----|-------|----|-------|----|-------|----|----|----|----|-------|-------|-------|----|-------------------|-------|--|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |       |    |    |    |       |    |    |       |       |       |    |       |    |       |    |       |    |    |    |    |       |       |       |    |                   |       |  |
| Belvidere.....                       | Maximum | 34 | 35 | 38 | 44 | 36 | 42    | 43 | 54 | 54 | 36    | 32 | 31 | 41    | ..... | 31    | 38 | ..... | 45 | ..... | 21 | 20    | 29 | 34 | 30 | 22 | 30    | 28    | 25    | 37 | 33                | ..... |  |
|                                      | Minimum | 13 | 19 | 12 | 23 | 20 | 30    | 32 | 40 | 36 | 31    | 22 | 23 | 29    | 21    | 18    | 23 | 32    | 35 | 35    | 21 | 13    | 11 | 9  | 26 | 18 | 7     | 11    | 9     | 7  | 17                | 26    |  |
| Charlotteburg.....                   | Maximum | 29 | 33 | 38 | 38 | 48 | 46    | 56 | 48 | 59 | 40    | 34 | 32 | 42    | 34    | 29    | 32 | 58    | 58 | 55    | 43 | 24    | 26 | 29 | 35 | 34 | 21    | 34    | 22    | 32 | 42                | 38    |  |
|                                      | Minimum | 19 | 22 | 18 | 23 | 10 | 38    | 33 | 40 | 40 | 30    | 20 | 15 | 29    | 20    | 11    | 16 | 31    | 32 | 35    | 23 | 10    | 4  | -2 | 24 | 20 | 4     | 7     | 9     | -4 | 10                | 20    |  |
| Dover.....                           | Maximum | 28 | 35 | 38 | 40 | 37 | 50    | 53 | 59 | 59 | 49    | 40 | 32 | 43    | 35    | 32    | 37 | 54    | 46 | 52    | 41 | ..... | 25 | 28 | 35 | 28 | 21    | 30    | 21    | 25 | 41                | 37    |  |
|                                      | Minimum | 16 | 19 | 21 | 23 | 22 | 37    | 36 | 45 | 33 | 22    | 19 | 19 | 28    | 18    | 18    | 19 | 34    | 35 | 35    | 15 | 11    | 7  | 5  | 28 | 12 | 6     | 12    | 4     | 12 | 20                |       |  |
| Layton.....                          | Maximum | 26 | 35 | 39 | 39 | 39 | 40    | 43 | 47 | 59 | 40    | 35 | 31 | 39    | 41    | 30    | 37 | 54    | 52 | 50    | 57 | 19    | 21 | 25 | 33 | 32 | 22    | 35    | 29    | 25 | 37                |       |  |
|                                      | Minimum | 5  | 18 | 12 | 33 | 12 | 26    | 32 | 38 | 37 | 32    | 22 | 24 | 29    | 18    | 17    | 18 | 32    | 37 | 32    | 19 | 9     | 4  | 0  | 25 | 17 | 1     | 12    | 6     | 2  | 19                |       |  |
| Newton.....                          | Maximum | 32 | 39 | 39 | 40 | 43 | 44    | 49 | 61 | 60 | 48    | 34 | 33 | 40    | 39    | 34    | 39 | 52    | 48 | 46    | 53 | 30    | 25 | 27 | 34 | 34 | 28    | 31    | 31    | 25 | 37                |       |  |
|                                      | Minimum | 14 | 17 | 18 | 28 | 18 | 31    | 35 | 42 | 33 | 26    | 22 | 22 | 28    | 18    | 16    | 19 | 33    | 33 | 31    | 18 | 8     | 9  | 8  | 24 | 15 | 3     | 11    | 6     | 4  | 18                |       |  |
| Phillipsburg.....                    | Maximum | 31 | 31 | 37 | 34 | 49 | 47    | 47 | 58 | 58 | ..... | 33 | 36 | ..... | 38    | 38    | 50 | 44    | 51 | 43    | 19 | 19    | 30 | 35 | 35 | 23 | ..... | ..... | ..... | 36 | 38.3 <sup>f</sup> |       |  |
|                                      | Minimum | 23 | 23 | 23 | 28 | 27 | 38    | 36 | 45 | 35 | 29    | 26 | 25 | 33    | ..... | 21    | 24 | 34    | 38 | 38    | 19 | 16    | 13 | 11 | 28 | 15 | 10    | 13    | 10    | 20 | 28                |       |  |
| Sussex.....                          | Maximum | 29 | 35 | 38 | 39 | 33 | 42    | 42 | 48 | 59 | 41    | 35 | 33 | 39    | 41    | ..... | 36 | 49    | 49 | 53    | 47 | 25    | 22 | 26 | 34 | 34 | 22    | 33    | 29    | 26 | 36                |       |  |
|                                      | Minimum | 6  | 20 | 20 | 32 | 14 | 29    | 34 | 42 | 39 | 31    | 23 | 23 | 28    | 19    | ..... | 18 | 33    | 34 | 33    | 21 | 10    | 5  | 2  | 25 | 21 | 6     | 12    | 8     | 4  | 19                |       |  |
| The Red Sandstone Plain.             |         |    |    |    |    |    |       |    |    |    |       |    |    |       |       |       |    |       |    |       |    |       |    |    |    |    |       |       |       |    |                   |       |  |
| Bergen Point.....                    | Maximum | 33 | 39 | 40 | 45 | 45 | 56    | 54 | 63 | 63 | 41    | 37 | 37 | 48    | 43    | 33    | 45 | 54    | 49 | 53    | 43 | 24    | 23 | 31 | 38 | 35 | 25    | 29    | 29    | 39 | 34                |       |  |
|                                      | Minimum | 23 | 23 | 26 | 36 | 26 | 43    | 39 | 49 | 39 | 34    | 27 | 28 | 35    | 24    | 22    | 22 | 35    | 39 | 37    | 24 | 17    | 15 | 15 | 20 | 20 | 11    | 17    | 13    | 21 | 27                |       |  |
| Boonton§§.....                       | Maximum | 30 | 37 | 39 | 41 | 51 | 50    | 53 | 60 | 57 | 45    | 35 | 34 | 46    | 31    | 33    | 42 | 57    | 39 | 54    | 37 | 34    | 22 | 31 | 36 | 29 | 27    | 30    | 21    | 26 | 41                |       |  |
|                                      | Minimum | 12 | 21 | 17 | 24 | 17 | 23    | 34 | 36 | 45 | 33    | 21 | 18 | 25    | 24    | 20    | 18 | 32    | 34 | 34    | 34 | 12    | 8  | 4  | 5  | 27 | 8     | 9     | 9     | 3  | 8                 |       |  |
| Elizabeth.....                       | Maximum | 31 | 39 | 39 | 39 | 41 | 45    | 51 | 58 | 58 | 45    | 35 | 36 | 46    | 46    | 31    | 40 | 51    | 51 | 48    | 48 | 26    | 21 | 30 | 36 | 36 | 23    | 33    | 33    | 27 | 39                |       |  |
|                                      | Minimum | 21 | 22 | 24 | 33 | 26 | 41    | 40 | 49 | 45 | 35    | 23 | 25 | 30    | 25    | 21    | 22 | 36    | 38 | 38    | 26 | 16    | 12 | 12 | 29 | 23 | 9     | 13    | 12    | 10 | 20                |       |  |
| Flemington.....                      | Maximum | 33 | 41 | 41 | 46 | 39 | 53    | 51 | 53 | 62 | 38    | 38 | 39 | 46    | 45    | 35    | 39 | 50    | 52 | 51    | 52 | 20    | 23 | 30 | 34 | 35 | 26    | 38    | 31    | 30 | 38                |       |  |
|                                      | Minimum | 20 | 21 | 22 | 35 | 25 | 33    | 36 | 45 | 37 | 33    | 23 | 23 | 30    | 23    | 21    | 21 | 34    | 52 | 54    | 23 | 16    | 11 | 9  | 28 | 21 | 10    | 11    | 12    | 9  | 17                |       |  |
| Highwood.....                        | Maximum | 32 | 38 | 39 | 43 | 40 | 53    | 53 | 59 | 60 | 41    | 32 | 34 | 45    | 43    | 34    | 37 | 55    | 47 | 47    | 55 | 22    | 22 | 29 | 36 | 36 | 24    | 35    | 29    | 26 | 41                |       |  |
|                                      | Minimum | 18 | 23 | 21 | 29 | 17 | 39    | 37 | 46 | 37 | 30    | 20 | 21 | 29    | 23    | 21    | 20 | 33    | 36 | 37    | 21 | 14    | 9  | 8  | 29 | 18 | 8     | 16    | 9     | 7  | 19                |       |  |
| Jersey City.....                     | Maximum | 32 | 40 | 41 | 44 | 52 | 55    | 54 | 60 | 57 | 39    | 34 | 40 | 48    | 36    | 34    | 45 | 55    | 48 | 53    | 52 | 23    | 24 | 32 | 37 | 35 | 24    | 35    | 30    | 30 | 40                |       |  |
|                                      | Minimum | 23 | 23 | 28 | 32 | 30 | 41    | 41 | 47 | 38 | 33    | 27 | 30 | 36    | 24    | 22    | 28 | 39    | 38 | 39    | 22 | 14    | 15 | 17 | 32 | 18 | 12    | 18    | 12    | 14 | 27                |       |  |
| Lambertville.....                    | Maximum | 28 | 37 | 40 | 41 | 39 | 53    | 52 | 61 | 58 | 37    | 35 | 38 | 49    | 49    | 36    | 41 | 54    | 53 | 53    | 47 | 21    | 20 | 25 | 35 | 34 | 22    | 35    | 30    | 28 | 38                |       |  |
|                                      | Minimum | 20 | 20 | 22 | 30 | 28 | 38    | 39 | 46 | 35 | 31    | 22 | 26 | 35    | 22    | 21    | 26 | 35    | 37 | 37    | 17 | 14    | 12 | 12 | 27 | 12 | 8     | 14    | 10    | 20 | 24                |       |  |
| Little Falls§§.....                  | Maximum | 33 | 36 | 42 | 45 | 48 | 50    | 55 | 57 | 57 | 45    | 33 | 40 | 40    | 30    | 32    | 43 | 62    | 39 | 48    | 36 | 34    | 22 | 32 | 40 | 30 | 28    | 35    | 19    | 24 | 40                |       |  |
|                                      | Minimum | 15 | 21 | 20 | 29 | 18 | 26    | 36 | 44 | 45 | 33    | 22 | 21 | 25    | 24    | 20    | 20 | 26    | 32 | 35    | 34 | 14    | 11 | 7  | 12 | 28 | 9     | 14    | 11    | 6  | 12                |       |  |
| New Brunswick.....                   | Maximum | 31 | 37 | 41 | 42 | 41 | 56    | 53 | 63 | 62 | 38    | 35 | 39 | 49    | 50    | 32    | 43 | 53    | 53 | 49    | 53 | 24    | 22 | 25 | 36 | 34 | 24    | 35    | 30    | 29 | 40                |       |  |
|                                      | Minimum | 21 | 20 | 23 | 33 | 25 | 39    | 45 | 38 | 33 | 23    | 24 | 31 | 23    | 20    | 22    | 25 | 37    | 38 | 39    | 24 | 10    | 11 | 10 | 27 | 21 | 10    | 17    | 11    | 9  | 17                |       |  |
| Paterson.....                        | Maximum | 33 | 40 | 40 | 46 | 47 | 48    | 53 | 54 | 60 | 41    | 35 | 34 | 46    | 45    | 35    | 37 | 52    | 54 | 51    | 53 | 24    | 28 | 30 | 37 | 35 | 25    | 37    | 30    | 28 | 42                |       |  |
|                                      | Minimum | 22 | 24 | 25 | 34 | 24 | 35    | 43 | 47 | 41 | 34    | 26 | 26 | 32    | 25    | 21    | 24 | 36    | 37 | 37    | 24 | 15    | 15 | 12 | 32 | 18 | 10    | 18    | 14    | 11 | 22                |       |  |
| Plainfield.....                      | Maximum | 32 | 41 | 40 | 44 | 42 | 53    | 54 | 61 | 56 | 40    | 36 | 39 | 48    | 38    | 33    | 44 | 55    | 46 | 53    | 50 | 24    | 21 | 30 | 35 | 33 | 24    | 34    | 26    | 28 | 40                |       |  |
|                                      | Minimum | 20 | 21 | 21 | 32 | 20 | 35    | 36 | 45 | 37 | 32    | 22 | 21 | 31    | 24    | 20    | 18 | 33    | 36 | 36    | 21 | 15    | 8  | 8  | 27 | 19 | 9     | 13    | 10    | 6  | 16                |       |  |
| Somerville.....                      | Maximum | 32 | 39 | 40 | 44 | 40 | 53    | 53 | 63 | 62 | 42    | 39 | 37 | 48    | 45    | 33    | 41 | 55    | 55 | 45    | 52 | 27    | 23 | 32 | 35 | 35 | 25    | 36    | 37    | 30 | 38                |       |  |
|                                      | Minimum | 16 | 21 | 22 | 30 | 20 | 40    | 36 | 46 | 42 | 34    | 18 | 21 | 27    | 24    | 20    | 20 | 30    | 36 | 38    | 25 | 10    | 2  | 2  | 36 | 37 | 22    | 10    | 9     | 12 | 6                 |       |  |
| South Orange.....                    | Maximum | 30 | 37 | 39 | 41 | 52 | 53    | 65 | 60 | 61 | 46    | 36 | 35 | 47    | 36    | 32    | 41 | 56    | 41 | 54    | 39 | 21    | 22 | 25 | 36 | 37 | 22    | 34    | 19    | 27 | 41                |       |  |
|                                      | Minimum | 21 | 22 | 24 | 28 | 26 | 40    | 40 | 48 | 35 | 28    | 25 | 28 | 32    | 22    | 20    | 23 | 38    | 39 | 37    | 18 | 14    | 15 | 19 | 11 | 9  | 15    | 11    | 10    | 26 | 22                |       |  |
| New York, N. Y.....                  | Maximum | 32 | 40 | 42 | 44 | 53 | 56    | 55 | 61 | 59 | 38    | 34 | 40 | 48    | 36    | 34    | 46 | 56    | 48 | 54    | 43 | 22    | 25 | 33 | 35 | 36 | 25    | 36    | 22    | 31 | 41                |       |  |
|                                      | Minimum | 23 | 23 | 28 | 32 | 31 | 41    | 42 | 48 | 38 | 30    | 27 | 30 | 36    | 22    | 22    | 29 | 40    | 38 | 40    | 18 | 14    | 16 | 18 | 33 | 16 | 11    | 19    | 12    | 15 | 27                |       |  |
| The Southern Interior.               |         |    |    |    |    |    |       |    |    |    |       |    |    |       |       |       |    |       |    |       |    |       |    |    |    |    |       |       |       |    |                   |       |  |
| Belleplain.....                      | Maximum | 37 | 40 | 43 | 48 | 53 | ..... | 59 | 60 | 62 | 48    | 39 | 47 | 55    | 46    | 35    | 51 | 61    | 52 | 62    | 42 | 33    | 30 | 35 | 39 | 39 | 30    | 36    | 37    | 38 | 40                |       |  |
|                                      | Minimum | 21 | 19 | 17 | 30 | 25 | ..... | 24 | 44 | 47 | 24    | 12 | 16 | 27    | 27    | 17    | 25 | 34    | 35 | 36    | 29 | 13    | 4  | 3  | 28 | 22 | 8     | 1     | 3     | -1 | 19                |       |  |
| Bridgeton.....                       | Maximum | 33 | 40 | 42 | 48 | 48 | 54    | 57 | 63 | 60 | 47    | 40 | 48 | 57    | 50    | 40    | 50 | 60    | 57 | 62    | 52 | 30    | 28 | 33 | 38 | 38 | 30    | 35    | 28    | 36 | 40                |       |  |
|                                      | Minimum | 25 | 20 | 25 | 34 | 30 | 42    | 40 | 47 | 47 | 30    | 22 | 25 | 35    | 27    | 22    | 28 | 33    | 43 | 37    | 23 | 15    | 15 | 30 | 20 | 12 | 15    | 15    | 10    | 20 | 30                |       |  |
|                                      |         |    |    |    |    |    |       |    |    |    |       |    |    |       |       |       |    |       |    |       |    |       |    |    |    |    |       |       |       |    |                   |       |  |



# CLIMATOLOGICAL DATA.

NEW JERSEY SECTION,  
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TRENTON, N. J.

VOL. XXIX. ANNUAL SUMMARY, 1924. No. 13.

## GENERAL SUMMARY.

There were two outstanding features in a general analysis of weather conditions in the year 1924 in New Jersey. The first was the persistent deficiency in warmth, and the other was the steady lack of needed rainfall during the latter half of the year. The temperatures were above normal in January, just normal in March and August, and subnormal in all other months. The early half of the year was productive of an excess of precipitation, except in March, and the later half was dry, except for a small excess in September. The rain in October was so deficient as to constitute the driest month on record for the 40 years of tabulated observations, and some stations during the October-November drought reported over 50 days with but one light shower.

A late snowstorm on April first covered the ground with from two to ten inches of snow, and this caused a decided setback in the forward march of spring, which did not recover, and agriculture advanced to maturity approximately two weeks late.

An early cold wave on the 17th-19th of November abruptly terminated the usual mild and pleasant autumn, temperatures being under 20° in all regions except the immediate coast, and an extreme low reading of 1° breaking the record of the month. Small ponds were frozen, and there was considerable skating.

The past 40 year record of the state, divided into as nearly equal thirds as possible shows a temperature variation of slightly over one tenth of one degree, which is more justifiably accounted for as due to variation in instruments and exposure than to climate change. The precipitation shows greater variation; but for this factor, the period is too brief to exemplify as a fact, whether or not there may be any permanent change in moisture.

The mean temperature for the year, 50.7°, was 1.0° below normal. The warmest was August, 71.9°, and the coldest, February, 28.9°. The highest temperature was 102° at Indian Mills on August 6th, and the lowest, 6° below zero, at Culvers Lake on January 27th. The highest mean temperature was 53.5° at Bridgeton, and the lowest, 46.9° at Charlotteburg. The greatest annual range of temperature was 105° at Layton.

The average precipitation for the State for the year was 44.17 inches, which was 1.71 inches below normal. The greatest monthly average was 6.15 inches in April, and the least, 0.31 inch in October. The greatest monthly amount of precipitation was 9.48 inches at Runyon in August, and the least, trace at Bridgeton in October. The greatest annual precipitation was 54.69 inches at Chatham, and the least, 35.99 inches at Sussex.

The average snowfall for the State was 25.0 inches, which was 5.2 inches below normal. The greatest annual snowfall was 48.2 inches at Culvers Lake, and the least, 5.6 inches at Cape May City.

The average number of days on which 0.01 inch or more precipitation occurred was 102, which was 12 less than normal. The average number of clear days was 177, which was 35 more than normal; partly cloudy, 96, which was 20 less than normal; cloudy, 93, which was 15 less than normal.

The prevailing wind direction was from the northwest; the highest velocity was 88 miles per hour from the northeast at Atlantic City on March 11th.

Light hail with no damage fell at a few stations in March; also on April 20th, June 7th, 14th, 20th and 25th, August 9th,

and 10th. Considerable damage was done by hail on the 17th in the vicinity of Bridgeton and Millville, and little damage occurred at Forked River and Hammonton.

## COMPARATIVE ANNUAL DATA FOR THE STATE

| Year | Temperature |         |        | Average precipitation | Year | Temperature |         |        | Average precipitation |
|------|-------------|---------|--------|-----------------------|------|-------------|---------|--------|-----------------------|
|      | Mean        | Highest | Lowest |                       |      | Mean        | Highest | Lowest |                       |
| 1885 | 50.5        | 100     | -2     | 37.87                 | 1906 | 52.8        | 98      | -15    | 46.38                 |
| 1886 | 50.2        | 98      | -10    | 46.54                 | 1907 | 50.4        | 96      | -22    | 51.65                 |
| 1887 | 51.1        | 102     | -6     | 47.66                 | 1908 | 52.6        | 106     | -17    | 42.58                 |
| 1888 | 50.0        | 99      | -12    | 52.20                 | 1909 | 52.0        | 100     | -15    | 40.86                 |
| 1889 | 52.8        | 95      | -3     | 63.33                 | 1910 | 52.0        | 99      | -15    | 39.73                 |
| 1890 | 53.2        | 101     | 0      | 49.34                 | 1911 | 52.6        | 104     | -12    | 50.36                 |
| 1891 | 53.2        | 102     | 1      | 47.98                 | 1912 | 51.3        | 100     | -32    | 46.61                 |
| 1892 | 51.4        | 105     | -6     | 42.04                 | 1913 | 54.2        | 100     | -11    | 46.99                 |
| 1893 | 50.8        | 103     | -21    | 47.90                 | 1914 | 51.4        | 99      | -12    | 39.23                 |
| 1894 | 53.0        | 106     | -11    | 47.37                 | 1915 | 52.5        | 98      | -3     | 47.37                 |
| 1895 | 51.7        | 109     | -12    | 37.29                 | 1916 | 51.2        | 100     | -18    | 38.17                 |
| 1896 | 51.7        | 105     | -15    | 42.51                 | 1917 | 49.6        | 104     | -21    | 40.80                 |
| 1897 | 52.0        | 102     | -6     | 51.72                 | 1918 | 51.2        | 108     | -16    | 37.65                 |
| 1898 | 53.2        | 107     | -15    | 52.35                 | 1919 | 52.5        | 103     | -12    | 52.10                 |
| 1899 | 52.1        | 103     | -21    | 45.84                 | 1920 | 51.2        | 98      | -17    | 51.87                 |
| 1900 | 53.8        | 104     | -9     | 42.71                 | 1921 | 54.1        | 100     | -5     | 38.16                 |
| 1901 | 51.4        | 107     | -8     | 51.80                 | 1922 | 52.6        | 98      | -11    | 41.57                 |
| 1902 | 51.8        | 100     | -11    | 59.44                 | 1923 | 51.9        | 106     | -14    | 40.38                 |
| 1903 | 51.7        | 100     | -16    | 56.25                 | 1924 | 50.7        | 102     | -6     | 44.17                 |
| 1904 | 49.3        | 100     | -34    | 43.78                 |      |             |         |        |                       |
| 1905 | 51.3        | 102     | -18    | 42.06                 |      |             |         |        |                       |

## MONTHLY STATE DATA FOR 1924

| Month     | Temperature |                       |         |        | Precipitation |                       |          |       |        |                       |
|-----------|-------------|-----------------------|---------|--------|---------------|-----------------------|----------|-------|--------|-----------------------|
|           | Mean        | Departure from normal | Highest | Lowest | Average       | Departure from normal | Greatest | Least | Snow   | Departure from normal |
| January   | 32.2        | +2.2                  | 65      | -6     | 4.48          | +0.83                 | 5.69     | 2.88  | 1.4    | -7.5                  |
| February  | 28.9        | -1.0                  | 62      | -3     | 4.10          | +0.40                 | 6.11     | 2.45  | 11.9   | +2.6                  |
| March     | 38.8        | 0.0                   | 76      | 5      | 2.51          | -1.32                 | 5.69     | 0.80  | 2.7    | -3.2                  |
| April     | 48.0        | -1.5                  | 81      | 18     | 6.15          | +2.50                 | 9.23     | 4.74  | 6.6    | +5.1                  |
| May       | 56.8        | -3.7                  | 87      | 25     | 5.69          | +1.96                 | 7.94     | 3.36  | 0.0    | 0.0                   |
| June      | 66.8        | -1.8                  | 95      | 30     | 4.20          | +0.48                 | 7.32     | 1.72  | 0.0    | 0.0                   |
| July      | 71.6        | -1.6                  | 98      | 41     | 2.50          | -2.05                 | 5.08     | 0.84  | 0.0    | 0.0                   |
| August    | 71.9        | 0.0                   | 102     | 38     | 4.40          | -0.50                 | 9.48     | 1.82  | 0.0    | 0.0                   |
| September | 62.2        | -3.4                  | 99      | 29     | 5.42          | +1.83                 | 8.44     | 2.47  | 0.0    | 0.0                   |
| October   | 54.4        | -0.4                  | 84      | 6      | 0.31          | -3.39                 | 2.76     | T     | 0.0    | 0.0                   |
| November  | 42.8        | -0.2                  | 77      | 1      | 2.03          | -1.07                 | 3.23     | 1.17  | 1.3    | 0.0                   |
| December  | 32.8        | -0.2                  | 68      | -4     | 2.58          | -1.38                 | 3.42     | 1.85  | 4.3    | -2.2                  |
| Year      | *50.7       | -1.0                  | 102     | -6     | †44.17        | -1.71                 | 9.48     | T     | **25.0 | -5.2                  |

\* Mean of 29 stations

† Mean of the sums of 34 stations

\*\* Mean of 22 stations

## KILLING FROSTS

| Stations                                   | Last in spring | First in autumn | Stations                     | Last in spring | First in autumn |
|--------------------------------------------|----------------|-----------------|------------------------------|----------------|-----------------|
| <i>The Highlands and Kittatinny Valley</i> |                |                 | <i>The Southern Interior</i> |                |                 |
| Belvidere                                  | May 5          | Oct. 23         | Belleplain                   | Apr. 5         | Oct. 14         |
| Charlotteburg                              | do. 23         | do. 13          | Bridgeton                    | do. 3          | do. 21          |
| Culvers Lake                               | do. 2          | do. 2           | Burlington                   | do. 4          | do. 13          |
| Dover                                      | do. 5          | do. 2           | Clayton                      | do. 5          | do. 14          |
| Layton                                     | do. 5          | do. 9           | Hightstown                   | May 5          | do. 20          |
| Newton                                     | do.            | do. 14          | Imlaystown                   | do. 5          | do. 14          |
| Phillipsburg                               | Apr. 16        | do. 23          | Indian Mills                 | Apr. 12        | do. 21          |
| Sussex                                     | May 5          | do. 13          | Lakewood                     | do. 17         | do. 21          |
| <i>The Red Sandstone Plain</i>             |                |                 | Moorestown                   | do. 4          | do. 20          |
| Bergen Point                               | Apr. 27        | Nov. 16         | Pleasantville                | do. 4          | do. 21          |
| Boonton                                    | May 5          | Oct. 14         | Runyon                       | do.            | do. 2           |
| Elizabeth                                  | Apr. 4         | do. 21          | Trenton                      | Apr. 4         | do. 23          |
| Flemington                                 | do. 17         | do. 23          | Tuckerton                    | do. 27         | do. 21          |
| Highwood                                   | do. 17         | do. 13          | Vineland                     | do. 4          | do. 21          |
| Jersey City                                | do. 2          | Nov. 16         | <i>The Sea Coast</i>         |                |                 |
| Lambertville                               | do. 21         | Oct. 21         | Asbury Park                  | Apr. 3         | Oct. 21         |
| Little Falls                               | May 12         | do. 23          | Atlantic City                | do. 3          | Nov. 17         |
| Newark                                     | Apr. 3         | do.             | Cape May City                | Mar. 20        | do. 17          |
| New Brunswick                              | do. 4          | Oct. 23         | Long Branch                  | Apr. 7         | Oct. 21         |
| Paterson                                   | do. 3          | do. 13          | Sandy Hook                   | do. 3          | Nov. 16         |
| Plainfield                                 | May 5          | do. 13          |                              |                |                 |
| Somerville                                 | do. 5          | do. 14          |                              |                |                 |
| South Orange                               | Apr. 3         | do. 21          |                              |                |                 |



## Climatological Data for the Year 1924

| STATION                              | Counties   | Elevation, feet | Temperature (degrees Fahrenheit) |             |         |          |        |          | Precipitation (inches)  |                    |                  |       |               |       | Number days with .01 or more | Sky                       |                   |                           | Prevailing direction of wind |                    |
|--------------------------------------|------------|-----------------|----------------------------------|-------------|---------|----------|--------|----------|-------------------------|--------------------|------------------|-------|---------------|-------|------------------------------|---------------------------|-------------------|---------------------------|------------------------------|--------------------|
|                                      |            |                 | Length of record, years          | Annual mean | Highest | Date     | Lowest | Date     | Length of record, years | Total for the year | Greatest monthly | Month | Least monthly | Month |                              | Total snowfall (unmelted) | Number clear days | Number partly cloudy days |                              | Number cloudy days |
| The Highlands and Kittatinny Valley. |            |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belvidere                            | Warren     | 289             | 33                               |             | 94      | Aug. 6†  | 1      | Jan. 22  | 33                      | 41.60              | 6.86             | Sept. | 0.15          | Oct.  |                              | 98                        | 218               | 69                        | 79                           |                    |
| Charlotteburg                        | Passaic    | 719             | 32                               | 46.9        | 98      | Sept. 1  | -4     | Dec. 29  | 32                      | 44.29              | 7.97             | do.   | 0.12          | do.   | 35.0                         | 84                        |                   |                           |                              |                    |
| Culvers Lake                         | Sussex     | 848             |                                  |             |         |          | -6     | Jan. 27  | 23                      | 37.58              | 6.99             | do.   | 0.25          | do.   | 48.2                         | 112                       | 190               | 73                        | 103                          | w. se.             |
| Dover                                | Morris     | 600             | 40                               | 48.1        | 95      | Aug. 7†  | 1      | Jan. 22† | 40                      | 44.80              | 7.47             | do.   | 0.11          | do.   | 32.4                         | 91                        | 101               | 176                       | 89                           |                    |
| Layton                               | Sussex     | 480             | 23                               | 47.2        | 101     | Aug. 6   | -4     | Jan. 27  | 23                      | 39.29              | 8.44             | do.   | 0.36          | do.   | 35.0                         | 110                       | 186               | 52                        | 128                          | w.                 |
| Newton                               | Sussex     | 769             | 41                               |             | 100     | do. 31   | -3     | Jan. 22  | 38                      |                    | 6.11             | do.   | 0.30          | do.   |                              |                           |                   |                           |                              |                    |
| Phillipsburg                         | Warren     | 363             | 33                               | 50.0        | 100     | do. 6    | 4      | do. 22   | 41                      | 38.75              | 6.31             | Apr.  | 0.04          | do.   |                              | 83                        | 223               | 64                        | 79                           |                    |
| Sussex                               | Sussex     | 442             | 26                               | 48.1        | 97      | do. 31   | 0      | Jan. 21† | 29                      | 35.99              | 5.93             | Sept. | 0.01          | do.   |                              | 101                       |                   |                           |                              |                    |
| Means and extremes                   |            |                 |                                  | 48.1        | 101     | Aug. 6   | -6     | Jan. 27  |                         | 40.33              | 8.44             | Sept. | 0.01          | Oct.  | 37.6                         | 97                        | 183               | 87                        | 96                           | w.                 |
| The Red Sandstone Plain.             |            |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Bergen Point                         | Hudson     | 37              | 27                               | 51.9        | 97      | Aug. 7†  | 5      | Jan. 22  | 27                      | 41.34              | 6.31             | May   | 0.29          | Oct.  | 24.9                         | 93                        | 70                | 214                       | 82                           | nw.                |
| Boonton                              | Morris     | 400             | 16                               |             | 96      | do. 6    | 2      | Jan. 22† | 34                      |                    | 6.86             | Sept. | 0.14          | do.   |                              | 93                        |                   |                           |                              | nw.                |
| Chatham                              | Morris     | 185             |                                  |             |         |          |        |          | 20                      | 54.69              | 9.23             | Apr.  | 0.22          | do.   |                              | 88                        | 248               | 72                        | 46                           | nw.                |
| Elizabeth                            | Union      | 45              | 44                               | 51.6        | 101     | Aug. 7   | 4      | Jan. 22  | 45                      | 49.51              | 7.12             | May   | 0.23          | do.   | 22.2                         | 105                       | 165               | 113                       | 88                           | nw.                |
| Flemington                           | Hunterdon  | 140             | 27                               | 50.9        | 99      | Aug. 6†  | 2      | Feb. 14  | 38                      | 41.42              | 6.05             | Apr.  | 0.22          | do.   | 28.0                         | 111                       | 216               | 62                        | 88                           | w.                 |
| Highwood                             | Bergen     | 90              | 34                               | 48.7        | 95      | July 30† | 4      | Jan. 22† | 36                      | 42.83              | 6.38             | do.   | 0.28          | do.   | 26.3                         | 99                        | 132               | 101                       | 133                          | nw.                |
| Jersey City                          | Hudson     | 10              | 26                               | 52.0        | 97      | Aug. 7   | 5      | Jan. 22  | 26                      | 42.92              | 6.73             | Aug.  | 0.30          | do.   | 28.2                         | 105                       | 152               | 117                       | 97                           | nw.                |
| Lambertville                         | Hunterdon  | 370             | 37                               | 49.8        | 97      | do. 6    | 1      | do. 22   | 37                      | 49.73              | 7.95             | Apr.  | 0.25          | do.   | 43.1                         | 129                       | 197               | 67                        | 102                          | nw.                |
| Little Falls                         | Passaic    | 180             | 10                               | 50.1        | 98      | July 30  | 4      | do. 22   | 21                      | 50.08              | 7.94             | May   | 0.24          | do.   | 23.1                         | 103                       | 171               | 104                       | 91                           | nw.                |
| Newark                               | Essex      | 159             | 82                               |             |         |          | 4      | do. 22   | 82                      |                    |                  | Aug.  |               | do.   |                              |                           |                   |                           |                              |                    |
| New Brunswick                        | Middlesex  | 110             | 67                               | 50.6        | 98      | Aug. 6†  | 3      | do. 22   | 71                      | 45.65              | 6.90             | Aug.  | 0.28          | Oct.  | 19.8                         | 106                       | 190               | 94                        | 82                           | w.                 |
| New Milford                          | Bergen     | 9               |                                  |             |         |          |        |          | 6                       |                    | 5.76             | Apr.  | 0.28          | do.   |                              |                           |                   |                           |                              |                    |
| Paterson                             | Passaic    | 80              | 49                               | 52.0        | 98      | Aug. 7   | 5      | Jan. 22  | 53                      | 44.87              | 6.67             | May   | 0.25          | do.   |                              | 105                       |                   |                           |                              |                    |
| Plainfield                           | Somerset   | 110             | 33                               | 49.6        | 97      | Aug. 6†  | 2      | do. 22   | 36                      | 51.63              | 7.33             | do.   | 0.23          | do.   | 34.3                         | 108                       | 158               | 121                       | 87                           | nw.                |
| Somerville                           | Somerset   | 74              | 40                               | 49.9        | 96      | do. 6†   | 4      | Jan. 22† | 41                      | 45.15              | 6.17             | Apr.  | 0.26          | do.   |                              | 99                        |                   |                           |                              | nw.                |
| South Orange                         | Essex      | 200             | 54                               |             | 95      | do. 6†   |        |          | 54                      |                    | 6.80             | do.   | 0.27          | do.   |                              |                           |                   |                           |                              | w.                 |
| Woodcliff Lake                       | Bergen     | 100             |                                  |             |         |          |        |          | 6                       |                    | 5.98             | do.   | 0.16          | do.   |                              |                           |                   |                           |                              |                    |
| New York, N. Y.                      |            | 365             | 54                               | 51.2        | 93      | Aug. 7   | 4      | Jan. 22  | 54                      | 37.72              | 6.99             | Aug.  | 0.30          | do.   | 25.6                         | 96                        | 100               | 129                       | 137                          | nw.                |
| Means and extremes                   |            |                 |                                  | 50.6        | 101     | Aug. 7   | 1      | Jan. 22  |                         | 46.65              | 9.23             | Apr.  | 0.14          | Oct.  | 27.8                         | 103                       | 170               | 106                       | 90                           | nw.                |
| The Southern Interior.               |            |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belle Plain                          | Cape May   | 30              | 29                               | 51.0        | 100     | Aug. 6   | -2     | Jan. 22  | 30                      | 42.54              | 6.83             | Apr.  | 0.07          | Oct.  | 11.6                         | 117                       |                   |                           |                              | nw.                |
| Bridgeton                            | Cumberland | 30              | 38                               | 53.5        | 100     | do. 6    | 7      | do. 22   | 43                      | 44.74              | 5.98             | do.   | T.            | do.   | 9.5                          | 85                        | 243               | 48                        | 75                           | w.                 |
| Burlington                           | Burlington | 12              | 12                               | 52.6        | 99      | do. 6    | 4      | do. 22   | 38                      | 51.35              | 7.16             | May   | 0.15          | do.   |                              | 96                        | 239               | 54                        | 73                           | nw.                |
| Clayton                              | Gloucester | 126             | 25                               |             |         |          | 4      | do. 22   | 28                      |                    | 5.02             | Apr.  |               | do.   |                              |                           |                   |                           |                              | nw.                |
| Hammonton                            | Atlantic   | 103             |                                  |             |         |          |        |          | 23                      | 51.07              | 6.90             | Apr.  | 0.10          | Oct.  | 21.5                         | 76                        | 212               | 85                        | 69                           | w.                 |
| Hightstown                           | Mercer     | 120             | 31                               |             |         |          | 1      | Feb. 14  | 32                      |                    | 6.83             | June  | 0.20          | do.   |                              |                           |                   |                           |                              |                    |
| Imlaystown                           | Monmouth   | 115             | 33                               |             |         |          | 4      | Jan. 22  | 36                      |                    | 7.32             | do.   | 0.15          | do.   |                              |                           |                   |                           |                              | w.                 |
| Indian Mills                         | Burlington | 76              | 35                               | 51.8        | 102     | Aug. 6   | -2     | do. 22   | 34                      | 53.23              | 7.87             | Apr.  | 0.15          | do.   | 24.0                         | 103                       | 143               | 102                       | 121                          | nw.                |
| Lakewood                             | Ocean      | 54              | 20                               |             | 98      | do. 9    | 0      | Feb. 14  | 20                      | 48.85              | 6.06             | June  | 0.17          | do.   |                              |                           |                   |                           |                              |                    |
| Moorestown                           | Burlington | 75              | 61                               | 52.0        | 99      | Sept. 1  | 5      | Jan. 22  | 61                      | 44.65              | 5.64             | Apr.  | 0.05          | do.   | 19.0                         | 113                       | 181               | 63                        | 122                          | nw.                |
| Northfield                           | Atlantic   | 25              |                                  |             |         |          |        |          | 17                      | 40.35              | 5.53             | do.   | 0.06          | do.   |                              | 104                       | 158               | 115                       | 93                           | nw.                |
| Pleasantville                        | Atlantic   | 26              | 1                                | 50.7        | 96      | Sept. 1  | 1      | Jan. 22  | 26                      | 40.66              | 5.27             | do.   | 0.47          | do.   |                              | 114                       |                   |                           |                              |                    |
| Runyon                               | Middlesex  | 18              | 1                                |             | 98      | Aug. 6†  | -2     | Dec. 29  | 1                       |                    | 9.48             | Aug.  | 0.20          | do.   |                              |                           |                   |                           |                              | w.                 |
| Trenton                              | Mercer     | 190             | 52                               | 51.7        | 97      | Aug. 6   | 4      | Jan. 22  | 52                      | 46.62              | 5.99             | Apr.  | 0.20          | do.   |                              |                           |                   |                           |                              | nw.                |
| Tuckerton                            | Ocean      | 23              | 26                               | 51.9        | 99      | do. 6    | 2      | do. 22   | 31                      |                    | 6.24             | June  | 0.09          | do.   | 27.7                         | 106                       | 128               | 109                       | 129                          | nw.                |
| Vineland                             | Cumberland | 109             | 55                               |             | 101     | do. 6    | 5      | do. 22   | 55                      |                    | 6.67             | do.   | 0.07          | do.   |                              | 207                       | 207               | 99                        | 60                           | nw.                |
| Philadelphia, Pa.                    |            | 117             | 53                               | 53.8        | 96      | do. 6    | 6      | do. 22   | 53                      | 43.11              | 5.37             | Apr.  | 0.09          | do.   | 20.2                         | 103                       | 114               | 94                        | 158                          | w.                 |
| Means and extremes                   |            |                 |                                  | 51.9        | 102     | Aug. 6   | -2     | Jan. 22† |                         | 46.41              | 9.48             | Aug.  | T.            | Oct.  | 20.8                         | 102                       | 188               | 91                        | 87                           | nw.                |
| The Sea Coast.                       |            |                 |                                  |             |         |          |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Asbury Park                          | Monmouth   | 22              | 34                               | 50.6        | 95      | July 30  | 4      | Jan. 21† | 35                      | 38.34              | 5.35             | Apr.  | 0.10          | Oct.  |                              | 96                        | 221               | 69                        | 76                           | nw.                |
| Atlantic City                        | Atlantic   | 16              | 51                               | 52.4        | 92      | do. 30   | 6      | Jan. 22  | 51                      | 38.31              | 5.39             | do.   | 0.05          | do.   |                              |                           |                   |                           |                              | nw.                |
| Cape May City                        | Cape May   | 17              | 40                               | 53.4        | 95      | Sept. 1  | 9      | do. 22   | 40                      | 41.38              | 6.14             | Sept. | 0.69          | do.   | 12.8                         | 109                       | 174               | 84                        | 108                          | nw.                |
| Long Branch                          | Monmouth   | 25              | 17                               | 50.3        | 98      | Aug. 7   | 4      | do. 22   | 17                      | 39.75              | 6.38             | Apr.  | 0.15          | do.   | 5.6                          | 116                       | 160               | 75                        | 131                          | nw.                |
| Sandy Hook                           | Monmouth   | 22              | 26                               | 51.3        | 93      | do. 7    | 6      | do. 22   | 26                      | 37.88              | 5.13             | Jan.  | 0.17          | do.   | 15.2                         | 102                       | 159               | 112                       | 95                           | nw.                |
| Means and extremes                   |            |                 |                                  | 51.6        | 98      | Aug. 7   | 4      | Jan. 21† |                         | 39.13              | 6.38             | Apr.  | 0.05          | Oct.  | 11.2                         | 105                       | 167               | 93                        | 106                          | nw.                |
| For the State                        |            |                 |                                  | 50.7        | 102     | Aug. 6   | -6     | Jan. 27  |                         | 44.17              | 9.48             | Aug.  | T.            | Oct.  | 25.0                         | 102                       | 177               | 96                        | 93                           | nw.                |

† Also on other dates



Monthly and Annual Precipitation for the Year 1924, with Departures from the Normal

| STATIONS                                    | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|---------------------------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
|                                             | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| <i>The Highlands and Kittatinny Valley.</i> |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belvidere.....                              | 4.41          | +0.87     | 3.38          | -0.60     | 1.83          | -2.02     | 5.78          | +2.12     | 5.15          | +1.32     | 3.42          | -0.58     | 2.52          | -2.46     | 3.09          | -1.52     | 6.86          | +3.09     | 0.15          | -3.52     | 2.74          | -0.50     | 2.27          | -1.80     | 41.60         | -5.60     |
| Charlotteburg.....                          | 5.69          | +2.14     | 3.39          | -0.77     | 1.09          | -3.11     | 6.90          | +2.58     | 6.75          | +2.55     | 1.72          | -2.40     | 4.60          | -0.23     | 1.82          | -2.80     | 7.97          | +3.55     | 0.12          | -4.35     | 1.86          | -1.66     | 2.38          | -1.95     | 44.29         | -6.45     |
| Culvers Lake.....                           | 4.06          | +0.88     | 2.62          | -0.55     | 1.14          | -2.33     | 5.55          | +1.73     | 5.75          | +2.12     | 2.02          | -2.59     | 2.20          | -2.37     | 3.23          | -1.19     | 6.99          | +2.45     | 0.25          | -3.93     | 1.64          | -1.16     | 2.13          | -1.53     | 37.58         | -8.47     |
| Dover.....                                  | 5.57          | +1.18     | 3.47          | -0.70     | 1.39          | -2.60     | 7.29          | +3.53     | 5.29          | +1.35     | 3.06          | -0.97     | 2.95          | -2.32     | 3.31          | -1.45     | 7.47          | +3.38     | 0.11          | -3.96     | 2.11          | -1.53     | 2.78          | -1.52     | 44.80         | -5.61     |
| Layton.....                                 | 3.34          | +0.45     | 3.00          | +0.16     | 1.58          | -1.79     | 5.68          | +2.07     | 6.12          | +2.87     | 2.55          | -1.24     | 1.50          | -2.76     | 2.54          | -1.36     | 8.44          | +4.52     | 0.36          | -3.26     | 2.33          | -0.16     | 1.85          | -2.09     | 39.29         | -2.59     |
| Newton.....                                 | 3.77          | +0.16     | 2.45          | -1.24     | 0.99          | -2.58     | 4.84          | +1.47     | .....         | .....     | .....         | .....     | 3.43          | -1.53     | 2.89          | -1.53     | 6.11          | +2.30     | 0.30          | -3.33     | 1.79          | -1.34     | 2.50          | -1.21     | .....         | .....     |
| Phillipsburg.....                           | 3.95          | +0.35     | 3.94          | +0.17     | 1.07          | -2.47     | 6.31          | +3.05     | 4.33          | +0.47     | 4.32          | +0.69     | 2.07          | -2.78     | 2.68          | -1.94     | 6.03          | +2.37     | 0.04          | -3.52     | 1.96          | -1.24     | 2.05          | -1.69     | 38.75         | -6.54     |
| Sussex.....                                 | 2.88          | -0.60     | 3.00          | -0.50     | 1.13          | -2.46     | 5.34          | +1.90     | 5.11          | -1.39     | 2.19          | -1.49     | 2.60          | -1.80     | 3.12          | -1.14     | 5.93          | +2.03     | 0.01          | -3.43     | 2.07          | -1.18     | 2.61          | -0.95     | 35.99         | -8.23     |
| <i>The Red Sandstone Plain.</i>             |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Bergen Point.....                           | 4.46          | +0.57     | 5.28          | +1.16     | 1.57          | -2.43     | 5.08          | +0.69     | 6.31          | +2.35     | 3.56          | -0.22     | 1.19          | -3.42     | 5.63          | +0.57     | 3.61          | +0.08     | 0.29          | -4.38     | 1.85          | -1.42     | 2.51          | -1.87     | 41.34         | -8.32     |
| Boonton.....                                | 3.72          | -0.11     | .....         | .....     | 0.92          | -3.02     | 5.87          | +1.88     | 6.23          | +2.17     | 2.25          | -1.42     | 3.53          | -1.37     | 3.82          | -1.26     | 6.86          | +2.73     | 2.09          | -1.82     | 1.47          | -2.10     | 2.61          | -1.37     | .....         | .....     |
| Chatham.....                                | 5.58          | +1.89     | 4.84          | +1.29     | 2.74          | -1.00     | 9.23          | +5.13     | 4.54          | +1.54     | 4.20          | +0.14     | 4.47          | +0.03     | 6.40          | +1.99     | 7.91          | +3.62     | 0.22          | -3.99     | 1.55          | -1.35     | 3.01          | -1.16     | 54.69         | +8.13     |
| Elizabeth.....                              | 5.09          | +1.05     | 4.62          | +0.30     | 2.10          | -2.12     | 7.05          | +3.37     | 7.12          | +3.30     | 3.68          | +0.06     | 3.64          | -1.52     | 6.03          | +1.74     | 5.72          | +1.95     | 0.23          | -2.63     | 1.62          | -1.63     | 2.61          | -1.35     | 49.51         | +2.52     |
| Flemington.....                             | 4.25          | +0.56     | 3.54          | -0.13     | 1.65          | -2.24     | 6.05          | +2.53     | 5.55          | +1.53     | 5.96          | +2.12     | 2.37          | -2.82     | 2.99          | -1.72     | 4.58          | +0.68     | 0.22          | -3.44     | 1.72          | -1.40     | 2.54          | -1.22     | 41.42         | -5.55     |
| Highwood.....                               | 4.84          | +0.89     | 3.28          | -1.13     | 1.53          | -2.65     | 6.38          | +2.95     | 5.28          | +1.45     | 2.64          | -1.05     | 2.73          | -2.22     | 5.63          | +0.88     | 5.26          | +1.34     | 0.28          | -4.14     | 2.23          | -1.27     | 2.75          | -1.46     | 42.83         | -6.41     |
| Jersey City.....                            | 4.26          | +0.76     | 4.72          | +0.87     | 2.51          | -1.64     | 5.97          | +1.81     | 5.79          | +2.21     | 3.16          | -0.34     | 1.30          | -3.14     | 6.73          | +2.20     | 3.06          | -0.29     | 0.30          | -3.38     | 2.55          | -0.64     | 2.57          | -1.36     | 42.92         | -2.94     |
| Lambertville.....                           | 5.17          | +1.52     | 4.91          | +1.31     | 2.86          | -1.17     | 7.95          | +4.37     | 6.68          | +2.66     | 4.90          | +0.99     | 3.40          | -1.42     | 4.16          | -0.50     | 5.04          | +1.15     | 0.25          | -3.23     | 1.66          | -1.55     | 2.75          | -1.12     | 49.73         | +3.01     |
| Little Falls.....                           | 4.86          | +1.16     | 3.40          | -0.19     | 1.41          | -2.18     | 6.93          | +2.71     | 7.94          | +4.15     | 3.88          | +0.36     | 4.51          | +0.12     | 4.92          | +0.52     | 5.46          | +1.88     | 2.76          | -1.75     | 1.56          | -1.34     | 2.45          | -1.64     | 50.08         | -3.80     |
| Newark.....                                 | 4.80          | +1.04     | 3.77          | +0.02     | 2.07          | -1.80     | 7.51          | +3.77     | 7.08          | +3.11     | 3.50          | -0.26     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| New Brunswick.....                          | 5.03          | +1.24     | 4.12          | +0.37     | 2.29          | -1.52     | 5.92          | +2.18     | 6.08          | +2.69     | 3.19          | -0.57     | 2.75          | -2.29     | 6.90          | +1.75     | 5.18          | +1.58     | 0.28          | -3.30     | 1.53          | -1.95     | 2.38          | -1.29     | 45.65         | -1.11     |
| New Milford.....                            | 4.77          | .....     | .....         | .....     | 1.62          | .....     | 5.76          | .....     | 4.54          | .....     | 2.12          | .....     | 3.08          | .....     | 4.78          | .....     | 5.31          | .....     | 0.28          | .....     | 1.51          | .....     | 2.44          | .....     | .....         | .....     |
| Paterson.....                               | 4.91          | +1.06     | 4.06          | -0.30     | 1.48          | -2.90     | 4.74          | +1.18     | 6.67          | +2.23     | 3.61          | -0.51     | 3.90          | -1.12     | 5.00          | +0.27     | 6.34          | +2.21     | 0.25          | -3.84     | 1.67          | -1.50     | 2.24          | -1.82     | 44.87         | -5.04     |
| Plainfield.....                             | 5.04          | +1.02     | 4.22          | +0.12     | 2.53          | -1.74     | 7.10          | +3.20     | 7.33          | +3.41     | 4.48          | +0.74     | 4.68          | -1.15     | 5.37          | +0.15     | 6.42          | +2.05     | 0.23          | -3.92     | 1.50          | -1.87     | 2.73          | -1.33     | 51.63         | +0.68     |
| Somerville.....                             | 4.74          | +1.02     | 3.10          | -0.81     | 1.81          | -2.15     | 6.17          | +2.68     | 5.91          | +2.06     | 3.67          | -0.07     | 5.08          | -0.03     | 4.70          | -0.14     | 5.40          | +1.75     | 0.26          | -3.18     | 1.85          | -1.19     | 2.46          | -1.39     | 45.15         | -1.45     |
| South Orange.....                           | .....         | .....     | .....         | .....     | .....         | .....     | 6.80          | +3.23     | 6.77          | +3.21     | 3.87          | +0.32     | 3.69          | -1.32     | 5.60          | +0.52     | 6.09          | +2.28     | 0.27          | -3.57     | 1.17          | -2.13     | 2.95          | -0.97     | .....         | .....     |
| Woodcliff Lake.....                         | 3.74          | .....     | .....         | .....     | 0.80          | .....     | 5.98          | .....     | 4.17          | .....     | 1.53          | .....     | 3.58          | .....     | 3.20          | .....     | 5.24          | .....     | 0.16          | .....     | 1.88          | .....     | 2.16          | .....     | .....         | .....     |
| New York, N. Y.....                         | 3.56          | -0.23     | 3.84          | -0.03     | 1.65          | -2.45     | 4.53          | +1.23     | 5.23          | +2.05     | 2.74          | -0.52     | 1.30          | -3.24     | 6.99          | +2.46     | 3.16          | -0.43     | 0.30          | -3.41     | 2.04          | -1.40     | 2.38          | -1.07     | 37.72         | -7.04     |
| <i>The Southern Interior.</i>               |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belleplain.....                             | 3.97          | +0.44     | 4.08          | +0.36     | 4.50          | +0.80     | 6.83          | +3.18     | 4.20          | +0.38     | 4.47          | +1.25     | 0.84          | -3.27     | 2.57          | -1.73     | 5.44          | +2.05     | 0.07          | -3.35     | 2.37          | -0.24     | 3.20          | -0.75     | 42.54         | -0.88     |
| Bridgeton.....                              | 4.20          | +0.68     | 3.91          | -0.05     | 3.25          | -0.93     | 5.98          | +2.46     | 5.32          | +1.48     | 5.56          | +1.83     | 2.11          | -2.38     | 4.67          | +0.08     | 5.12          | +1.81     | T.            | -3.59     | 1.88          | -0.92     | 2.74          | -1.08     | 44.74         | -0.61     |
| Burlington.....                             | 5.19          | +1.79     | 4.55          | +0.93     | 3.08          | -0.63     | 6.18          | +2.48     | 7.16          | +2.95     | 6.96          | +3.08     | 3.09          | -1.65     | 4.69          | -0.76     | 5.98          | +2.47     | 0.15          | -3.50     | 1.69          | -1.42     | 2.63          | -1.69     | 51.35         | +4.05     |
| Clayton.....                                | .....         | .....     | 3.54          | -0.04     | 2.41          | -1.17     | 5.02          | +1.54     | 4.74          | +1.41     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | 1.74      | -1.10         | .....     | .....         | .....     | .....         | .....     |
| Hammonton.....                              | 4.98          | +1.19     | 5.22          | +1.69     | 4.32          | +0.73     | 6.90          | +2.98     | 5.31          | +1.03     | 5.45          | +1.93     | 3.39          | -1.32     | 3.66          | -0.32     | 5.84          | +2.65     | 0.10          | -3.45     | 2.63          | -0.69     | 3.27          | -0.33     | 51.07         | +6.09     |
| Hightstown.....                             | 4.82          | +1.55     | 4.68          | +0.95     | 2.49          | -1.55     | 6.66          | +2.75     | 6.27          | +2.32     | 6.83          | +3.23     | 1.71          | -3.28     | .....         | .....     | .....         | .....     | 0.20          | -3.51     | 2.00          | -1.31     | 2.41          | -1.28     | .....         | .....     |
| Imlaytown.....                              | 4.38          | +0.84     | .....         | .....     | 2.80          | -1.28     | 5.09          | +1.65     | 5.21          | +1.59     | 7.32          | +3.55     | 1.99          | -2.77     | .....         | .....     | 4.92          | +1.10     | 0.15          | -3.71     | 2.15          | -1.05     | 2.57          | -1.10     | .....         | .....     |
| Indian Mills.....                           | 4.66          | +0.84     | 6.11          | +2.54     | 4.51          | +0.48     | 7.87          | +4.45     | 5.79          | +2.55     | 5.83          | +1.70     | 2.20          | -2.46     | 4.85          | -1.08     | 5.86          | +1.95     | 0.15          | -3.29     | 2.35          | -0.73     | 3.05          | -1.35     | 53.23         | +5.60     |
| Lakewood.....                               | 4.80          | +1.12     | 5.72          | +2.02     | 3.51          | -0.47     | 5.99          | +2.32     | 5.87          | +2.47     | 6.06          | +2.35     | 1.99          | -2.86     | 5.32          | -0.73     | 4.79          | +2.00     | 0.17          | -3.42     | 2.32          | -0.14     | 2.31          | -2.33     | 48.85         | +2.33     |
| Moorestown.....                             | 4.31          | +0.85     | 4.41          | +0.81     | 3.25          | -0.51     | 5.64          | +2.35     | 5.44          | +1.42     | 4.86          | +1.14     | 3.69          | -0.99     | 4.01          | -0.88     | 4.80          | +1.17     | 0.05          | -3.52     | 1.75          | -1.50     | 2.44          | -1.25     | 44.65         | -0.91     |
| Northfield.....                             | 3.87          | +0.34     | 3.97          | +1.08     | 3.90          | +0.41     | 5.53          | +2.07     | 4.38          | +0.91     | 3.95          | +0.28     | 1.25          | -2.35     | 3.67          | -1.26     | 4.13          | +1.63     | 0.06          | -2.72     | 2.81          | +0.43     | 2.83          | -1.29     | 40.35         | -0.47     |
| Pleasantville.....                          | 3.72          | +0.56     | 4.11          | +1.20     | 3.99          | +0.52     | 5.27          | +1.92     | 5.24          | +1.98     | 3.79          | -0.14     | 1.06          | -2.92     | 3.59          | -1.34     | 3.49          | +0.37     | 0.47          | -2.97     | 2.96          | +0.24     | 2.97          | -1.27     | 40.66         | -1.85     |
| Runyon.....                                 | 5.19          | .....     | .....         | .....     | 2.30          | .....     | 5.71          | .....     | 6.25          | .....     | 3.45          | .....     | 1.13          | .....     | 9.48          | .....     | 4.36          | .....     | 0.20          | .....     | 1.51          | .....     | 2.35          | .....     | .....         | .....     |
| Trenton.....                                | 4.71          | +1.54     | 3.44          | +0.13     | 2.12          | -1.92     | 5.99          | +2.70     | 4.65          | +1.13     | 5.31          | +1.82     | 4.21          | -0.56     | 5.87          | +0.50     | 5.94          | +2.35     | 0.20          | -3.21     | 1.58          | -1.85     | 2.60          | -0.56     | 46.62         | +2.07     |
| Tuckerton.....                              | 4.03          | +0.40     | .....         | .....     | 5.69          | +1.44     | 5.96          | +2.22     | 6.22          | +2.48     | 6.24          | +2.41     | 2.95          | -0.93     | 3.16          | -2.38     | 4.29          | +1.23     | 0.09          | -3.44     | 3.23          | +0.15     | 2.80          | -1.71     | .....         | .....     |
| Vineland.....                               | 4.51          | +0.49     | 5.67          | +1.82     | 4.41          | +0.45     | 6.57          | +3.17     | 6.24          | +2.61     | 6.67          | +3.10     | 2.14          | -2.43     | 4.08          | -0.73     | .....         | .....     | 0.07          | -3.27     | 2.31          | -0.80     | 2.67          | -1.15     | .....         | .....     |
| Philadelphia, Pa.....                       | 4.45          | +1.04     | 4.57          | +1.09     | 3.45          | 0.00      | 5.37          | +2.46     | 4.91          | +1.71     | 4.31          | +1.01     | 3.18          | -1.15     | 3.77          | -0.84     | 5.08          | +1.70     | 0.09          | -3.01     | 1.75          | -1.31     | 2.18          | -0.86     | 43.11         | +1.84     |
| <i>The Sea Coast.</i>                       |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Asbury Park.....                            | 4.35          | +0.78     | 4.25          | +0.63     | 2.22          | -2.01     | 5.35          | +1.66     | 5.09          | +1.51     | 4.09          | +0.47     | 0.92          | -3.62     | 3.09          | -1.97     | 4.30          | +1.31     | 0.10          | -3.61     | 2.62          | -0.30     | 1.96          | -1.89     | 38.34         | -7.04     |
| Atlantic City.....                          | 3.28          | -0.12     | 4.05          | +0.67     | 3.59          | -0.14     | 5.39          | +2.40     | 3.36          | +0.36     | 3.56          | +0.53     | 1.45          | -2.33     | 4.38          | +0.08     | 3.50          | +0.45     | 0.05          | -3.25     | 2.55          | -0.68     | 3.15          | -0.       |               |           |



Monthly and Annual Mean Temperatures for the Year 1924, with Departures from the Normal

| STATIONS                             | January           |           | February          |           | March             |           | April             |           | May               |           | June              |           | July              |           | August            |           | September         |           | October           |                   | November          |                   | December          |           | Annual      |           |
|--------------------------------------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------|-------------|-----------|
|                                      | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure | Temperature       | Departure         | Temperature       | Departure         | Temperature       | Departure | Temperature | Departure |
| The Highlands and Kittatinny Valley. |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |                   |                   |                   |                   |           |             |           |
| Belvidere.....                       | <sup>f</sup> 29.1 | +1.8      | <sup>d</sup> 25.0 | -2.1      | 37.0              | -1.1      | 46.6              | -3.2      | <sup>a</sup> 54.6 | -6.1      | <sup>d</sup> 65.2 | -3.6      | <sup>b</sup> 70.8 | -2.4      | <sup>b</sup> 69.6 | -1.4      | 59.9              | -4.8      | 53.6              | -0.2              | 40.8              | -0.3              | .....             | .....     | .....       | .....     |
| Charlotteburg.....                   | <sup>e</sup> 28.8 | +1.9      | <sup>b</sup> 24.8 | -0.8      | 35.1              | -0.7      | <sup>a</sup> 44.7 | -2.1      | 53.1              | -4.4      | 63.6              | -1.2      | 68.0              | -2.0      | 68.2              | +0.3      | 58.1              | -3.8      | 50.2              | -1.4              | 39.6              | -0.5              | 29.0              | -0.8      | 46.9        | -1.3      |
| Dover.....                           | 28.2              | +1.6      | 26.0              | -0.2      | 36.5              | +1.3      | 46.2              | -1.2      | 54.6              | -4.0      | <sup>a</sup> 65.0 | -1.7      | 70.0              | -1.4      | <sup>b</sup> 69.5 | +0.4      | 59.0              | -3.2      | <sup>b</sup> 52.3 | +1.0              | <sup>a</sup> 40.4 | +0.3              | 29.4              | -0.5      | 48.1        | -0.6      |
| Layton.....                          | 27.9              | +3.2      | 24.6              | +1.0      | 35.2              | -0.4      | 44.3              | -2.9      | 54.0              | -4.0      | 64.1              | -1.4      | 69.8              | -1.1      | 69.3              | +0.9      | 59.2              | -3.1      | 50.2              | -1.3              | 40.0              | +1.2              | 28.4              | +1.0      | 47.2        | -0.6      |
| Newton.....                          | 28.4              | +2.7      | <sup>a</sup> 24.6 | -1.9      | 36.2              | +0.7      | <sup>b</sup> 46.2 | -1.8      | .....             | .....     | .....             | .....     | 71.0              | -1.5      | <sup>f</sup> 70.9 | +0.5      | <sup>i</sup> 60.8 | -2.7      | <sup>d</sup> 55.0 | +2.3              | <sup>a</sup> 41.8 | +1.3              | 29.8              | -0.3      | .....       | .....     |
| Phillipsburg.....                    | <sup>b</sup> 29.4 | +1.3      | <sup>d</sup> 28.5 | +0.6      | 38.4              | +0.3      | 47.5              | -2.4      | 56.6              | -4.7      | 66.4              | -2.9      | <sup>b</sup> 72.4 | -1.7      | <sup>b</sup> 72.0 | +0.2      | 61.5              | -3.7      | 54.1              | +0.2              | <sup>a</sup> 41.7 | +0.5              | <sup>a</sup> 31.5 | +0.2      | 50.0        | -1.0      |
| Sussex.....                          | 29.2              | +2.6      | 25.4              | 0.0       | 36.4              | +0.1      | 45.9              | -2.7      | <sup>b</sup> 54.4 | -5.5      | <sup>a</sup> 65.4 | -1.4      | <sup>b</sup> 70.2 | -1.9      | <sup>f</sup> 69.4 | -0.1      | 59.8              | -4.4      | 52.8              | -0.4              | <sup>a</sup> 39.6 | -1.5              | <sup>a</sup> 29.1 | -0.8      | 48.1        | -1.3      |
| The Red Sandstone Plain.             |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |                   |                   |                   |                   |           |             |           |
| Bergen Point.....                    | <sup>b</sup> 34.4 | +3.7      | 29.6              | +0.2      | 39.4              | -0.1      | 49.2              | -0.3      | <sup>a</sup> 57.4 | -2.9      | 67.8              | -0.6      | <sup>a</sup> 74.0 | 0.0       | <sup>b</sup> 74.1 | +1.9      | 63.4              | -3.0      | 56.4              | +0.2              | 44.4              | +0.7              | 32.4              | -0.6      | 51.9        | -0.1      |
| Boonton.....                         | 28.0              | +0.7      | 25.4              | -1.7      | .....             | .....     | 46.0              | -2.7      | 54.4              | -4.8      | 64.8              | -2.8      | 69.8              | -2.7      | 69.6              | -1.7      | 60.0              | -3.6      | 52.0              | -0.8              | 39.7              | -1.7              | 29.4              | -1.1      | .....       | .....     |
| Elizabeth.....                       | 33.0              | +2.8      | 28.6              | -1.9      | 39.8              | +1.0      | 49.4              | -1.4      | 57.8              | -4.2      | 68.2              | -2.3      | <sup>a</sup> 74.4 | -0.9      | <sup>b</sup> 73.6 | +0.2      | 64.0              | -3.7      | 54.8              | -0.6              | 42.6              | -0.9              | 32.7              | -0.6      | 51.6        | -1.0      |
| Flemington.....                      | 32.4              | +2.6      | 28.6              | -0.2      | 39.4              | -0.7      | 48.8              | -1.6      | 56.8              | -4.5      | 67.3              | -1.9      | 72.8              | -1.8      | 72.8              | +0.3      | 62.2              | -4.1      | 55.4              | -0.6              | 42.6              | -0.3              | 32.2              | +0.2      | 50.9        | -1.0      |
| Highwood.....                        | 30.6              | +1.8      | 26.2              | -2.2      | <sup>a</sup> 36.0 | -1.0      | <sup>a</sup> 45.4 | -3.1      | 56.0              | -3.3      | 65.6              | -2.0      | 71.0              | -1.3      | 69.7              | -1.1      | 60.0              | -3.7      | 51.2              | -2.2              | 41.1              | -0.9              | 31.4              | -0.4      | 48.7        | -1.6      |
| Jersey City.....                     | 33.4              | +1.2      | 29.8              | -0.8      | 39.6              | +0.4      | 48.8              | -1.2      | 57.3              | -4.3      | 67.8              | -2.1      | 73.8              | -2.3      | 74.2              | +0.1      | 63.6              | -2.6      | 57.0              | +0.7              | 44.1              | -0.1              | 34.1              | 0.0       | 52.0        | -0.9      |
| Lambertville.....                    | 31.0              | +0.5      | 27.1              | -3.3      | 37.4              | -2.0      | 47.6              | -3.1      | 55.8              | -5.8      | 66.2              | -3.5      | 72.2              | -2.1      | 71.6              | -0.8      | 61.8              | -4.0      | 53.9              | -0.7              | 41.2              | -2.0              | 31.8              | -1.8      | 49.8        | -2.4      |
| Little Falls.....                    | 30.4              | +2.4      | 27.4              | -2.2      | 37.8              | -0.2      | 49.0              | -0.9      | 57.8              | -1.9      | 67.7              | -0.3      | 72.8              | -1.0      | 71.4              | -1.8      | 61.6              | -2.5      | <sup>b</sup> 53.8 | -1.1              | <sup>a</sup> 40.8 | -1.4              | 30.7              | -0.8      | 50.1        | -1.0      |
| Newark.....                          | 32.5              | +2.7      | 28.8              | -0.3      | 40.0              | +1.0      | 50.0              | 0.0       | 58.1              | -3.0      | 69.0              | -0.3      | .....             | .....     | .....             | .....     | .....             | .....     | .....             | .....             | .....             | .....             | .....             | .....     | .....       | .....     |
| New Brunswick.....                   | 32.6              | +2.4      | 28.0              | -2.8      | 38.8              | 0.0       | 48.8              | -0.8      | 56.6              | -3.8      | 66.6              | -2.5      | 72.0              | -2.0      | <sup>b</sup> 72.0 | -0.1      | <sup>b</sup> 62.0 | -3.6      | 54.4              | -0.4              | 42.5              | -0.9              | 32.7              | -0.5      | 50.6        | -1.2      |
| Paterson.....                        | 33.2              | +3.6      | 29.3              | -0.9      | <sup>b</sup> 40.2 | +1.4      | 49.9              | -0.6      | 58.1              | -3.4      | 68.9              | -0.9      | 74.8              | +0.4      | 74.3              | +1.1      | 62.9              | -3.3      | 56.1              | +0.9              | 44.3              | +0.8              | 33.4              | +0.3      | 52.0        | -0.1      |
| Plainfield.....                      | 31.3              | +1.3      | 27.5              | -1.2      | 38.3              | -0.5      | 47.8              | -1.8      | 55.8              | -4.4      | 66.0              | -3.8      | 71.0              | -3.0      | <sup>a</sup> 72.2 | +0.4      | 60.6              | -5.0      | 52.5              | -1.7              | 40.4              | -2.1              | 31.5              | -1.2      | 49.6        | -1.9      |
| Somerville.....                      | 32.0              | +3.2      | 28.3              | -0.6      | 39.3              | +1.1      | 48.2              | -1.3      | 56.6              | -4.2      | 66.4              | -2.7      | 70.1              | -4.0      | <sup>b</sup> 70.0 | -2.4      | 60.8              | -5.2      | 53.8              | -0.5              | 41.3              | -1.1              | 32.5              | +0.3      | 49.9        | -1.4      |
| South Orange.....                    | .....             | .....     | .....             | .....     | .....             | .....     | 48.4              | -0.1      | 56.1              | -3.9      | 66.7              | -1.8      | 71.8              | -1.4      | <sup>b</sup> 72.0 | +1.1      | 61.1              | -3.0      | 53.7              | +0.3              | 41.6              | -0.2              | 32.0              | -0.1      | .....       | .....     |
| New York, N. Y.....                  | 32.5              | +1.6      | 29.1              | -2.2      | 38.7              | +1.0      | 48.1              | -1.3      | 56.2              | -4.4      | 66.8              | -2.0      | 72.6              | -1.2      | 73.0              | -0.1      | 63.0              | -3.8      | 56.8              | +0.5              | 44.1              | -0.1              | 34.0              | -1.0      | 51.2        | -1.1      |
| The Southern Interior.               |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |                   |                   |                   |                   |           |             |           |
| Belleplain.....                      | 34.2              | +1.2      | <sup>a</sup> 31.7 | +0.2      | 40.5              | -0.6      | 48.0              | -2.6      | <sup>a</sup> 57.7 | -3.4      | 67.2              | -1.5      | 70.8              | -3.0      | <sup>a</sup> 71.3 | -1.3      | <sup>a</sup> 62.5 | -4.0      | 53.0              | -3.3              | <sup>b</sup> 42.2 | -2.3              | <sup>a</sup> 33.0 | -2.1      | 51.0        | -1.9      |
| Bridgeton.....                       | 34.7              | +1.0      | 33.2              | -0.5      | 41.4              | -0.9      | 50.5              | -2.2      | 59.8              | -4.2      | <sup>a</sup> 69.6 | -2.5      | 74.8              | -1.9      | 74.8              | -0.2      | 64.8              | -3.4      | 56.6              | -0.8              | 45.7              | +0.1              | 35.7              | -0.5      | 53.5        | -1.3      |
| Burlington.....                      | <sup>a</sup> 34.2 | +1.9      | 30.4              | -0.9      | 41.0              | +0.6      | 50.0              | -1.8      | <sup>a</sup> 58.6 | -3.3      | <sup>b</sup> 68.9 | -0.8      | <sup>b</sup> 74.5 | -0.5      | <sup>a</sup> 74.6 | +0.4      | <sup>a</sup> 63.8 | -3.0      | <sup>b</sup> 56.8 | -1.4              | 44.7              | +0.3              | <sup>a</sup> 34.1 | +1.3      | 52.6        | -0.7      |
| Clayton.....                         | .....             | .....     | 32.6              | -1.9      | <sup>a</sup> 41.6 | -0.1      | <sup>b</sup> 50.0 | -1.2      | <sup>b</sup> 59.4 | -2.3      | .....             | .....     | .....             | .....     | .....             | .....     | .....             | .....     | .....             | <sup>d</sup> 45.0 | +0.7              | <sup>b</sup> 33.2 | -1.1              | .....     | .....       |           |
| Hightstown.....                      | 32.6              | +2.7      | 27.4              | -2.0      | 38.2              | -2.2      | 47.6              | -2.9      | 56.2              | -5.1      | <sup>a</sup> 66.2 | -2.8      | <sup>a</sup> 71.0 | -3.4      | .....             | .....     | .....             | .....     | <sup>b</sup> 53.8 | -1.4              | 41.8              | -1.5              | 32.6              | 0.0       | .....       | .....     |
| Imlaystown.....                      | <sup>a</sup> 32.4 | +1.3      | <sup>a</sup> 28.4 | -2.0      | 39.0              | -0.1      | 48.2              | -2.3      | 57.0              | -4.9      | 67.2              | -3.1      | <sup>a</sup> 73.9 | -0.8      | .....             | .....     | .....             | .....     | 53.8              | -1.3              | <sup>a</sup> 43.9 | +1.1              | <sup>a</sup> 32.4 | -0.5      | .....       | .....     |
| Indian Mills.....                    | 33.9              | +2.0      | 30.6              | -1.2      | 39.8              | -0.7      | 48.8              | -1.5      | 58.0              | -4.1      | 67.4              | -2.4      | 72.0              | -2.7      | 72.6              | 0.0       | 63.2              | -2.9      | 54.4              | -1.1              | 44.2              | +1.3              | 36.2              | +2.4      | 51.8        | -0.9      |
| Lakewood.....                        | 32.4              | +1.1      | 28.0              | -1.7      | 37.8              | -1.8      | 46.8              | -2.6      | 56.6              | -3.6      | 66.0              | -1.5      | 71.6              | -1.2      | 72.0              | +0.9      | <sup>a</sup> 62.8 | -1.8      | .....             | .....             | 42.4              | -0.4              | 34.1              | +0.6      | .....       | .....     |
| Moorestown.....                      | <sup>a</sup> 33.8 | +3.1      | 30.2              | -1.1      | <sup>a</sup> 38.8 | -0.4      | <sup>d</sup> 48.0 | -2.4      | <sup>b</sup> 58.0 | -3.3      | 68.2              | -1.8      | 74.0              | -0.7      | 74.0              | +1.4      | 64.6              | -1.4      | 56.8              | +2.1              | 44.3              | +1.1              | <sup>b</sup> 33.8 | +0.3      | 52.0        | -0.3      |
| Pleasantville.....                   | 32.2              | .....     | 31.0              | .....     | 39.2              | .....     | 47.6              | .....     | <sup>a</sup> 58.0 | .....     | 66.3              | .....     | 70.8              | .....     | 71.0              | .....     | 62.2              | .....     | 53.6              | .....             | 42.5              | .....             | 33.9              | .....     | 50.7        | .....     |
| Runyon.....                          | <sup>d</sup> 31.6 | .....     | <sup>a</sup> 30.5 | .....     | .....             | .....     | .....             | .....     | <sup>b</sup> 56.8 | .....     | 66.8              | .....     | 70.4              | .....     | <sup>b</sup> 70.6 | .....     | <sup>a</sup> 62.4 | .....     | 51.8              | .....             | 43.7              | .....             | <sup>a</sup> 31.0 | .....     | .....       | .....     |
| Trenton.....                         | 32.6              | +2.1      | 29.6              | -1.1      | 39.3              | +0.2      | 49.4              | -0.4      | 57.2              | -3.9      | 67.8              | -1.7      | 73.2              | -1.3      | 73.4              | +0.4      | 63.1              | -3.8      | 56.2              | +0.6              | 44.1              | -0.3              | 34.8              | +0.4      | 51.7        | -0.7      |
| Tuckerton.....                       | <sup>d</sup> 35.2 | +2.6      | <sup>a</sup> 31.4 | +0.6      | 40.9              | +0.9      | <sup>b</sup> 47.6 | -1.7      | 57.1              | -2.8      | 66.8              | -1.6      | 73.2              | -0.9      | 73.4              | +0.7      | <sup>b</sup> 63.3 | -2.9      | 54.4              | -1.7              | <sup>b</sup> 44.5 | +0.4              | 35.2              | +0.8      | 51.9        | -0.5      |
| Vineland.....                        | 35.4              | +3.2      | 33.4              | +0.9      | <sup>a</sup> 41.2 | +0.7      | 50.8              | -0.2      | <sup>b</sup> 59.4 | -2.9      | 70.0              | -1.2      | .....             | .....     | 75.2              | +1.5      | <sup>a</sup> 65.9 | -1.1      | 57.8              | +1.8              | 46.3              | +2.2              | 36.3              | +1.8      | .....       | .....     |
| Philadelphia, Pa.....                | 34.6              | +2.0      | 32.5              | -1.4      | 41.6              | +0.8      | 51.1              | -1.0      | 59.2              | -3.7      | 69.3              | -2.1      | 75.6              | -0.6      | 75.0              | +0.2      | 65.0              | -3.0      | 58.6              | +0.8              | 46.4              | +0.7              | 36.1              | -0.2      | 53.8        | -0.6      |
| The Sea Coast.                       |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |           |                   |                   |                   |                   |                   |           |             |           |
| Asbury Park.....                     | 34.4              | +2.2      | 29.3              | -2.1      | 38.8              | -0.2      | <sup>a</sup> 46.0 | -2.5      | <sup>a</sup> 55.2 | -3.6      | <sup>a</sup> 66.4 | -1.0      | <sup>b</sup> 69.7 | -2.7      | <sup>a</sup> 70.4 | -1.4      | 62.2              | -4.6      | <sup>b</sup> 55.6 | -0.2              | 44.6              | -0.2              | 34.4              | -0.6      | 50.6        | -1.4      |
| Atlantic City.....                   | 35.2              | +2.7      | 32.7              | -0.9      | 40.2              | +1.6      | 48.8              | +1.0      | 56.8              | -1.3      | 66.3              | -0.3      | 72.2              | +0.1      | 72.6              | +0.1      | 64.0              | -2.8      | 56.7              | -0.2              | 46.7              | +1.1              | 36.9              | +0.5      | 52.4        | +0.1      |
| Cape May City.....                   | 35.6              | +1.5      | 33.6              | -0.6      | 41.1              | +0.3      | 49.8              | +1.4      | 58.5              | -0.1      | 67.8              | +0.1      | 73.4              | 0.0       | 73.6              | +0.2      | 65.2              | -3.8      | 58.4              | -1.2              | 47.0              | -0.4              | 36.8              | -1.2      | 53.4        | -0.3      |
| Long Branch.....                     | 33.2              | +1.6      | 29.6              | -0.8      | 38.3              | -0.2      | 46.6              | -1.5      | 54.6              | -3.6      | 64.4              | -1.8      | 70.7              | -1.4      | 71.5              | +0.5      | 62.3              | -3.6      | 54.8              | -1.5              | 44.0              | -0.2              | 33.4              | -0.7      | 50.3        | -1.1      |
| Sandy Hook.....                      | 33.2              | +2.4      | 29.6              | -1.0      | 38.5              | +1.5      | 47.6              | +0.6      | 56.4              | -2.1      | 66.2              | -1.6      | 72.6              | -1.1      | 72.8              | 0.0       | 63.6              | -3.5      | 56.9              | +0.1              | 44.6              | 0.0               | 33.8              | -0.6      | 51.3        | -0.4      |

Letters of alphabet denote number of days missing



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXX. JANUARY, 1925. No. 1

### GENERAL SUMMARY.

The year opened with cold weather continuing from December, the ground being thoroughly frozen and nearly all bodies of water ice bound. On the 2d a snow storm covered the State with from a few inches to a foot or more of snow which was added to at intervals during the month. The storm of the 20th added a considerable layer of sleet, which with some previous thawing, made a thick ice cover over the ground. In northern districts these conditions were much more severe, while in the southern counties the snow and sleet caused but little trouble. Except in the southern counties, motor highway traffic was very greatly impeded or totally stopped on all roads not cleared. In portions of Hunterdon, Warren and Sussex counties the snowfall was exceptionally heavy, and some of the State highways were only partially cleared and with great difficulty.

Cold waves occurred on the 23d and 27th, and it was the coldest January since 1920 and 1918. The extreme lowest reading,  $-20^{\circ}$ , has been exceeded in only 4 other winters. A warm period occurred from the 4th to the 8th, but thereafter there were not more than two days at a time with warmth above normal. Temperatures were below zero in all portions of the State on the 28th except along the coast and in southern counties.

Ice harvest was successfully carried on, but under considerable difficulty due to snow cover, but its thickness and quality was very good.

Storm warnings were displayed on the coast on the 2d, 7th, 10th, 20th, 22d, 26th, 27th, 29th and 30th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 35 stations, was  $27.4^{\circ}$ , which was  $2.7^{\circ}$  below normal. The highest temperature was  $59^{\circ}$  at Pleasantville on the 26th, and the lowest,  $20^{\circ}$  below zero, at Layton on the 28th. The greatest daily range of temperature was  $47^{\circ}$  at Boonton on the 25th. The highest monthly mean temperature was  $34.7^{\circ}$  at Cape May City, and the lowest  $21.6^{\circ}$  at Layton.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands,  $-3.6^{\circ}$ ; Red Sandstone Plain,  $-3.9^{\circ}$ ; Southern Interior,  $-1.9^{\circ}$ ; Sea Coast,  $-0.4^{\circ}$ .

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 4.43 inches, which was 0.81 inch above normal. The average total snowfall at 20 selected stations was 22.8 inches, which was 15.2 inches above normal. The greatest monthly precipitation was 8.73 inches, at Belvidere, and the least, 2.54 inches at Clayton. The greatest amount of precipitation in any 24 consecutive hours was 2.70 inches at South Orange on the 2d and 3d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 10, which was normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands,  $+0.96$

inch; Red Sandstone Plain,  $+0.85$  inch; Southern Interior,  $+0.75$  inch; Sea Coast,  $+0.53$  inch.

### WIND.

The prevailing wind direction was from the northeast. The wind movement was 16 miles per hour, which was 2 miles above the normal. The highest velocity, sustained for 5 consecutive minutes, was 78 miles per hour from the northeast at Atlantic City on the 2d.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 12, which was 1 more than normal; partly cloudy 6, or 3 less than normal; cloudy, 13, or 2 more than normal. The per cent of possible sunshine was 46, which was 4 per cent below the normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.19 inches, which was 0.08 inch above normal. The highest reading was 30.71 inches at Trenton on the 24th, and the lowest, 29.31 inches at Sandy Hook on the 29th.

The Delaware River was frozen throughout the month at Phillipsburg and Trenton.

Dense fog occurred on the 7th, 13th, 16th, 17th, 26th, and 29th. Solar halos were observed on the 7th, 9th, 19th, and 31st, and lunar halos on the 7th, 9th, and 31st. Sleet fell on the 2d, 3d, 10th, 11th, 12th, 16th, 20th, 27th, 29th, and 30th. Thunderstorms were reported on the 20th and 29th.

### COMPARATIVE DATA FOR JANUARY

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 30.8        | 67      | 0      | 4.08          | 5.41     | 3.33  | .....      | .....         | .....  | .....                  |
| 1886..... | 27.3        | 60      | -10    | 4.47          | 5.59     | 3.08  | .....      | .....         | .....  | .....                  |
| 1887..... | 28.4        | 67      | -6     | 3.86          | 6.65     | 2.00  | .....      | .....         | 12     | 10                     |
| 1888..... | 25.4        | 59      | -12    | 4.77          | 6.74     | 2.80  | .....      | .....         | 12     | 9                      |
| 1889..... | 36.2        | 60      | 8      | 5.68          | 8.78     | 3.84  | .....      | .....         | 9      | 9                      |
| 1890..... | 41.3        | 78      | 12     | 2.29          | 3.22     | 1.05  | .....      | .....         | 11     | 10                     |
| 1891..... | 34.2        | 59      | 10     | 6.57          | 10.55    | 4.41  | 10         | 11            | 10     | 10                     |
| 1892..... | 29.9        | 67      | -6     | 5.13          | 7.05     | 2.50  | 10         | 9             | 12     | 10                     |
| 1893..... | 21.6        | 54      | -21    | 3.04          | 4.56     | 1.87  | 10         | 10            | 11     | 9                      |
| 1894..... | 34.2        | 61      | -4     | 2.34          | 3.80     | 1.18  | 10         | 8             | 13     | 11                     |
| 1895..... | 28.1        | 64      | -4     | 4.66          | 5.80     | 2.48  | 10         | 10            | 11     | 11                     |
| 1896..... | 28.6        | 61      | -7     | 1.66          | 2.81     | 0.68  | 12         | 10            | 9      | 5                      |
| 1897..... | 29.0        | 64      | -6     | 2.80          | 4.21     | 1.70  | 11         | 8             | 12     | 9                      |
| 1898..... | 32.6        | 64      | -10    | 4.20          | 5.90     | 2.79  | 9          | 11            | 11     | 11                     |
| 1899..... | 30.1        | 60      | -21    | 4.01          | 5.73     | 2.40  | 13         | 8             | 10     | 11                     |
| 1900..... | 32.4        | 64      | -5     | 3.85          | 5.50     | 2.37  | 11         | 11            | 9      | 10                     |
| 1901..... | 30.4        | 63      | -6     | 2.52          | 4.00     | 1.35  | 11         | 11            | 9      | 9                      |
| 1902..... | 28.4        | 58      | -5     | 3.28          | 4.35     | 2.52  | 12         | 9             | 10     | 10                     |
| 1903..... | 30.4        | 57      | -5     | 3.90          | 5.04     | 2.31  | 10         | 10            | 11     | 10                     |
| 1904..... | 23.3        | 58      | -34    | 3.09          | 4.67     | 1.34  | 13         | 7             | 11     | 10                     |
| 1905..... | 27.0        | 60      | -16    | 4.18          | 7.13     | 2.68  | 12         | 9             | 10     | 9                      |
| 1906..... | 36.5        | 74      | -5     | 2.85          | 3.86     | 2.08  | 11         | 9             | 11     | 11                     |
| 1907..... | 31.8        | 71      | -19    | 3.50          | 5.80     | 1.93  | 8          | 9             | 14     | 14                     |
| 1908..... | 31.8        | 60      | -6     | 3.74          | 5.22     | 2.29  | 12         | 11            | 8      | 9                      |
| 1909..... | 33.2        | 69      | -12    | 3.18          | 4.13     | 2.18  | 8          | 9             | 14     | 12                     |
| 1910..... | 29.7        | 54      | -15    | 5.04          | 6.65     | 3.66  | 8          | 8             | 15     | 15                     |
| 1911..... | 33.5        | 63      | 0      | 3.44          | 5.34     | 1.97  | 10         | 7             | 14     | 14                     |
| 1912..... | 22.3        | 58      | -32    | 2.82          | 4.62     | 1.73  | 8          | 12            | 11     | 13                     |
| 1913..... | 35.9        | 68      | 10     | 3.58          | 4.71     | 2.63  | 11         | 7             | 13     | 14                     |
| 1914..... | 31.9        | 73      | -12    | 3.85          | 6.15     | 1.95  | 9          | 8             | 14     | 9                      |
| 1915..... | 33.5        | 61      | 3      | 6.55          | 8.92     | 4.40  | 11         | 6             | 14     | 12                     |
| 1916..... | 35.1        | 74      | -2     | 1.60          | 2.96     | 0.92  | 11         | 8             | 12     | 11                     |
| 1917..... | 31.4        | 58      | 0      | 3.26          | 4.52     | 2.35  | 10         | 8             | 13     | 13                     |
| 1918..... | 20.3        | 56      | -16    | 4.14          | 6.14     | 2.78  | 12         | 8             | 11     | 11                     |
| 1919..... | 34.1        | 62      | -7     | 3.51          | 4.44     | 2.24  | 14         | 7             | 10     | 8                      |
| 1920..... | 23.6        | 53      | -10    | 2.60          | 3.53     | 1.61  | 11         | 7             | 13     | 11                     |
| 1921..... | 33.0        | 63      | -5     | 2.63          | 3.49     | 1.78  | 13         | 8             | 10     | 9                      |
| 1922..... | 27.6        | 57      | -11    | 2.62          | 4.13     | 1.08  | 15         | 6             | 10     | 8                      |
| 1923..... | 30.1        | 66      | -14    | 5.22          | 7.26     | 3.41  | 9          | 7             | 15     | 12                     |
| 1924..... | 32.2        | 65      | -6     | 4.48          | 5.69     | 2.88  | 15         | 8             | 8      | 8                      |
| 1925..... | 27.4        | 59      | -20    | 4.43          | 8.73     | 2.54  | 12         | 6             | 13     | 10                     |



## Climatological Data for January, 1925

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 34                      | 22.2                         | -5.1                      | 48      | 5    | -12    | 24   | 39                       | 8.73  | +5.19                     | 2.42                 | 50.0                      | 6                            | 18    | 5          | 8                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Erice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 33                      | 22.8                         | -4.1                      | 46      | 26   | -15    | 29   | 41                       | 2.88  | -0.67                     | 0.86                 | 36.5                      | 7                            | 6     | 7          | 18                           | w.        |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 843             | 24                      | 23.9 <sup>a</sup>            | -2.7                      | 43      | 25†  | -8     | 28   | ...                      | 2.83  | -0.35                     | 0.95                 | 34.4                      | 12                           | 12    | 6          | 13                           | e.        |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 41                      | 23.9 <sup>b</sup>            | -2.7                      | 43      | 25†  | -8     | 28   | ...                      | 4.05  | -0.34                     | 1.50                 | 34.5                      | 6                            | 5     | 15         | 11                           | .....     |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 24                      | 21.6*                        | -3.1                      | 45      | 22   | -20    | 28   | 41                       | 2.89  | 0.00                      | 0.83                 | 30.0                      | 11                           | 11    | 4          | 16                           | ne.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 42                      | 22.9                         | -2.8                      | 45      | 8†   | -12    | 28   | 37                       | 3.66  | +0.05                     | 0.94                 | 35.0                      | 9                            | 17    | 5          | 9                            | ne.       |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 42                      | 23.0                         | -3.6                      | 44      | 22†  | -16    | 28   | 37                       | 5.83  | +2.23                     | 2.52                 | 35.0                      | 7                            | 16    | 6          | 9                            | .....     |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 23.0                         | -3.6                      | 44      | 22†  | -16    | 28   | 37                       | 5.05  | +1.57                     | 1.91                 | 32.0                      | 9                            | 11    | 10         | 10                           | w.        |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 22.7                         | -3.6                      | 48      | 5    | -20    | 28   | 41                       | 4.49  | +0.96                     | 2.52                 | 35.9                      | 8                            | 12    | 7          | 12                           | ne.       |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37              | 28                      | 27.8                         | -2.9                      | 44      | 8†   | 3      | 28   | 33                       | 4.26  | +0.37                     | 1.66                 | 25.5                      | 7                            | 4     | 16         | 11                           | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                                | Morris.....     | 400             | 35                      | 22.4*                        | -4.9                      | 45      | 17†  | -7     | 28   | 47                       | 2.83  | -1.00                     | 0.72                 | .....                     | 10                           | 12    | 2          | 17                           | ne.       |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 21                      | 22.4*                        | -4.9                      | 45      | 17†  | -7     | 28   | 47                       | 5.63  | +1.94                     | 1.47                 | .....                     | 10                           | 15    | 7          | 9                            | .....     |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 46                      | 22.4*                        | -4.9                      | 45      | 17†  | -7     | 28   | 47                       | 5.55  | +1.51                     | 1.32                 | 33.0                      | 11                           | 12    | 6          | 13                           | ne.       |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 39                      | 24.8                         | -5.0                      | 46      | 5    | -9     | 29   | 44                       | 4.13  | +0.44                     | 1.80                 | 35.0                      | 10                           | 13    | 6          | 12                           | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                             | Bergen.....     | 90              | 37                      | 24.2                         | -4.6                      | 43      | 8†   | -6     | 28   | 35                       | 5.52  | +1.57                     | 1.72                 | 33.5                      | 11                           | 10    | 9          | 12                           | ne.       |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 27                      | 28.8                         | -3.4                      | 44      | 8†   | -3     | 28   | 35                       | 5.93  | +2.43                     | 1.19                 | 30.0                      | 12                           | 12    | 9          | 10                           | nw.       |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 38                      | 25.9                         | -4.6                      | 46      | 6    | -5     | 28   | 33                       | 5.65  | +2.00                     | 1.98                 | 31.0                      | 11                           | 14    | 4          | 13                           | ne.       |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 22                      | 24.2                         | -3.8                      | 45      | 17†  | -12    | 28   | 40                       | 4.45  | +0.75                     | 1.41                 | 33.3                      | 8                            | 13    | 7          | 11                           | nw.       | Passaic Consol. Water Co.<br>N. J. Experiment Station.<br>Hackensack Water Co.<br>Marion T. Probert.                     |
| New Brunswick.....                          | Middlesex.....  | 110             | 72                      | 27.2                         | -3.0                      | 44      | 17†  | -5     | 28   | 33                       | 3.62  | -0.17                     | 0.83                 | 20.2                      | 11                           | 11    | 7          | 13                           | n.        |                                                                                                                          |
| New Milford††.....                          | Bergen.....     | 9               | 5                       | 27.2                         | -3.0                      | 44      | 17†  | -5     | 28   | 33                       | 3.62  | -0.17                     | 0.83                 | 20.2                      | 11                           | 11    | 7          | 13                           | n.        |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 54                      | 27.3                         | -2.3                      | 46      | 8    | -5     | 28   | 31                       | 4.37  | +0.52                     | 1.20                 | 33.5                      | 9                            | 10    | 0          | 21                           | nw.       |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120             | 37                      | 24.6                         | -5.4                      | 44      | 8†   | -9     | 29   | 38                       | 5.16  | +1.14                     | 1.78                 | 33.6                      | 12                           | 9     | 7          | 15                           | ne.       | E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                                           |
| Somerville.....                             | Somerset.....   | 70              | 42                      | 25.2                         | -3.6                      | 45      | 8    | -6     | 15†  | 41                       | 3.68  | -0.04                     | 1.10                 | 35.0                      | 10                           | 16    | 0          | 15                           | w.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 55                      | 25.5                         | -3.4                      | 44      | 22   | -3     | 28   | 34                       | 4.53  | +0.50                     | 2.70                 | 44.5                      | 9                            | 9     | 9          | 13                           | ne.       |                                                                                                                          |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 5                       | 25.5                         | -3.4                      | 44      | 22   | -3     | 28   | 34                       | 4.53  | +0.50                     | 2.70                 | 44.5                      | 9                            | 9     | 9          | 13                           | ne.       |                                                                                                                          |
| New York, N. Y.....                         |                 | 365             | 55                      | 29.1                         | -1.8                      | 46      | 26   | -1     | 28   | 39                       | 5.30  | +1.51                     | 2.30                 | 25.1                      | 11                           | 7     | 11         | 13                           | nw.       | U. S. Weather Bureau.                                                                                                    |
| Means and extremes...                       |                 |                 |                         | 25.7                         | -3.9                      | 46      | 5†   | -12    | 28   | 47                       | 4.66  | +0.85                     | 2.70                 | 32.3                      | 10                           | 12    | 6          | 13                           | ne.       |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belleplain.....                             | Cape May.....   | 30              | 31                      | 32.0 <sup>a</sup>            | -1.0                      | 57      | 26   | 4      | 24†  | 38                       | 4.67  | +1.14                     | 0.94                 | 5.9                       | 12                           | 12    | 5          | 14                           | .....     | Thomas J. Durell.<br>Henry A. Jorden.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                              | Cumberland..... | 30              | 44                      | 31.2                         | -2.5                      | 54      | 26   | 0      | 28   | 31                       | 3.50  | -0.02                     | 1.30                 | 10.0                      | 8                            | 15    | 0          | 16                           | w.        |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 39                      | 28.8                         | -3.5                      | 46      | 25†  | -4     | 28   | 39                       | 6.40  | +3.00                     | 2.35                 | 18.0                      | 7                            | 15    | 3          | 13                           | nw.       |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 29                      | 28.6 <sup>b</sup>            | -3.5                      | 52      | 27   | -6     | 28   | 38                       | 2.54  | -0.93                     | 1.00                 | 11.2                      | 7                            | 20    | 2          | 9                            | n.        |                                                                                                                          |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | 28.6 <sup>b</sup>            | -3.5                      | 52      | 27   | -6     | 28   | 38                       | 2.54  | -0.93                     | 1.00                 | 11.2                      | 7                            | 20    | 2          | 9                            | n.        | Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.<br>James M. Armstrong.                               |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | 26.8                         | -3.1                      | 45      | 26   | -6     | 28   | 34                       | 4.22  | +0.43                     | 1.32                 | 8.0                       | 7                            | 9     | 10         | 12                           | w.        |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 26.8                         | -3.1                      | 45      | 26   | -6     | 28   | 34                       | 4.22  | +0.43                     | 1.32                 | 8.0                       | 7                            | 9     | 10         | 12                           | w.        |                                                                                                                          |
| Indian Mills††.....                         | Burlington..... | 76              | 36                      | 26.8                         | -3.1                      | 45      | 26   | -6     | 28   | 34                       | 4.22  | +0.43                     | 1.32                 | 8.0                       | 7                            | 9     | 10         | 12                           | w.        |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54              | 21                      | 29.0                         | -2.3                      | 50      | 26   | -1     | 28   | 33                       | 5.15  | +1.47                     | 1.25                 | 12.0                      | 12                           | 9     | 5          | 17                           | ne.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                             | Burlington..... | 75              | 62                      | 29.9                         | -0.8                      | 47      | 25   | -3     | 28   | 31                       | 5.27  | +1.81                     | 2.40                 | 19.0                      | 6                            | 10    | 5          | 16                           | nw.       |                                                                                                                          |
| Northfield††.....                           | Atlantic.....   | 25              | 18                      | 31.3                         | -1.9                      | 59      | 26   | -9     | 15   | 42                       | 4.24  | +0.75                     | 2.40                 | 12.0                      | 10                           | 12    | 6          | 13                           | ne.       |                                                                                                                          |
| Pleasantville††.....                        | Atlantic.....   | 26              | 27                      | 31.3                         | -1.9                      | 59      | 26   | -9     | 15   | 42                       | 4.24  | +0.75                     | 2.40                 | 12.0                      | 10                           | 12    | 6          | 13                           | ne.       |                                                                                                                          |
| Runyon††.....                               | Middlesex.....  | 18              | ...                     | 25.1                         | -1.9                      | 59      | 26   | -9     | 15   | 42                       | 4.24  | +0.75                     | 2.40                 | 12.0                      | 10                           | 12    | 6          | 13                           | ne.       | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                                | Mercer.....     | 190             | 53                      | 29.4                         | -1.1                      | 47      | 25   | -1     | 28   | 35                       | 4.31  | +1.14                     | 1.46                 | 18.5                      | 9                            | 6     | 7          | 18                           | ne.       |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 32                      | 31.8                         | -0.8                      | 57      | 26   | 3      | 28   | 31                       | 3.90  | +0.27                     | 0.95                 | 4.5                       | 14                           | 14    | 3          | 14                           | ne.       |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 56                      | 32.2                         | 0.0                       | 57      | 27   | 1      | 28   | 40                       | 3.84  | -0.18                     | 1.18                 | ...                       | 8                            | 12    | 6          | 13                           | sw.       |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 31.8                         | -0.8                      | 50      | 22   | 3      | 28   | 36                       | 4.68  | +1.27                     | 1.73                 | 11.6                      | 10                           | 8     | 7          | 16                           | ne.       |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 29.7                         | -1.9                      | 59      | 26   | -9     | 15   | 42                       | 4.24  | +0.75                     | 2.40                 | 12.0                      | 10                           | 12    | 6          | 13                           | ne.       |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 36                      | 31.0                         | -1.2                      | 51      | 26   | 4      | 24†  | 35                       | 3.28  | -0.29                     | 1.10                 | 15.0                      | 9                            | 17    | 7          | 7                            | ne.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 51                      | 34.4                         | +1.9                      | 54      | 22   | 7      | 28   | 32                       | 4.10  | +0.70                     | 1.38                 | 4.3                       | 14                           | 11    | 4          | 16                           | w.        |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 41                      | 34.7                         | +0.6                      | 55      | 26   | 8      | 28   | 34                       | 5.34  | +1.97                     | 2.57                 | 5.2                       | 13                           | 13    | 2          | 16                           | ne.       |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 18                      | 30.0                         | -1.6                      | 50      | 22†  | 3      | 24†  | 34                       | 4.56  | +0.38                     | 1.18                 | 15.8                      | 11                           | 10    | 7          | 14                           | ne.       |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 27                      | 29.1                         | -1.7                      | 43      | 8    | 4      | 28   | 31                       | 3.74  | -0.11                     | 0.96                 | 16.3                      | 11                           | 8     | 8          | 15                           | ne.       |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 31.8                         | -0.4                      | 55      | 26   | 3      | 24†  | 35                       | 4.20  | +0.53                     | 2.57                 | 11.3                      | 12                           | 12    | 6          | 13                           | ne.       |                                                                                                                          |
| For the State.....                          |                 |                 |                         | 27.4                         | -2.7                      | 59      | 26   | -20    | 28   | 47                       | 4.43  | +0.81                     | 2.70                 | 22.8                      | 10                           | 12    | 6          | 13                           | ne.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, \*, †, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



Daily Precipitation for January, 1925

| Stations                                   | Drainage Basin  | Day of month |      |      |   |   |   |   |    |   |     |     |     |     |     |    |     |     |     |      |      |     |    |    |    |    |    |    |     |     |      |      | Total |      |      |
|--------------------------------------------|-----------------|--------------|------|------|---|---|---|---|----|---|-----|-----|-----|-----|-----|----|-----|-----|-----|------|------|-----|----|----|----|----|----|----|-----|-----|------|------|-------|------|------|
|                                            |                 | 1            | 2    | 3    | 4 | 5 | 6 | 7 | 8  | 9 | 10  | 11  | 12  | 13  | 14  | 15 | 16  | 17  | 18  | 19   | 20   | 21  | 22 | 23 | 24 | 25 | 26 | 27 | 28  | 29  | 30   | 31   |       |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |      |   |   |   |   |    |   |     |     |     |     |     |    |     |     |     |      |      |     |    |    |    |    |    |    |     |     |      |      |       |      |      |
| Belvidere.....                             | Delaware.....   | 2.42         |      |      |   |   |   |   |    |   |     |     | .21 |     |     |    | .62 |     |     |      | 2.34 |     |    |    |    |    |    |    | .84 |     | 2.30 |      |       | 8.73 |      |
| Charlotteburg.....                         | Passaic.....    | .52          |      |      |   |   |   |   |    |   |     |     | *   | .18 |     |    | .38 |     |     |      | .86  |     |    |    |    |    |    |    | .32 |     | .62  |      |       | 2.88 |      |
| Culvers Lake.....                          | Delaware.....   | .45          | .08  |      |   |   |   |   |    |   |     |     | .18 | .05 | .01 |    | .32 | .05 | T.  |      | .95  |     |    |    |    |    |    |    | .22 | .04 | .18  | .30  |       | 2.83 |      |
| Dover.....                                 | Passaic.....    | 1.50         |      |      |   |   |   |   |    |   |     |     | .29 |     |     |    | .56 |     |     |      | .80  |     |    |    |    |    |    |    | .60 |     | .30  |      |       | 4.05 |      |
| Layton.....                                | Delaware.....   | .31          | .09  |      |   |   |   |   |    |   |     |     | *   | .18 |     |    | *   | .20 |     |      | .83  |     |    |    |    |    |    |    | .02 | .04 | .50  | .72  |       | 2.89 |      |
| Newton.....                                | Delaware.....   | .80          |      |      |   |   |   |   |    |   |     |     | .17 | .02 | T.  |    | .40 | .01 | T.  | T.   | .94  |     |    |    |    |    |    |    | .32 | .20 | .80  |      |       | 3.66 |      |
| Phillipsburg.....                          | do.....         | 2.52         |      |      |   |   |   |   | T. |   |     |     | .02 | T.  |     |    | .35 | T.  |     |      | .95  |     |    |    |    |    |    |    | .62 | T.  | 1.25 | .12  |       | 5.83 |      |
| Sussex.....                                | Hudson.....     | .55          | .81  |      |   |   |   |   |    |   |     |     | .61 | T.  |     |    | .16 | .01 |     |      | .35  |     |    |    |    |    |    |    | .28 | .37 |      | 1.91 |       | 5.05 |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |      |   |   |   |   |    |   |     |     |     |     |     |    |     |     |     |      |      |     |    |    |    |    |    |    |     |     |      |      |       |      |      |
| Bergen Point**.....                        | Coast.....      | 1.66         |      |      |   |   |   |   |    |   | T.  |     | .14 | .07 |     |    | .49 | T.  |     |      | .92  |     |    |    |    |    |    | T. | .33 |     | .65  | T.   |       | 4.26 |      |
| Boonton   .....                            | Passaic.....    | .09          | .72  |      |   |   |   |   |    |   | T.  |     | .02 | .10 |     |    | .48 |     |     |      | .37  | .19 |    |    |    |    |    |    | .01 | .34 |      | .51  |       | 2.83 |      |
| Chatham   .....                            | do.....         | .17          | 1.47 |      |   |   |   |   |    |   |     |     | .14 | .23 |     |    | .73 |     |     |      | .34  | .51 |    |    |    |    |    |    | .45 | .81 |      | .78  |       | 5.63 |      |
| Elizabeth.....                             | Coast.....      | *            | 1.98 |      |   |   |   |   |    |   | T.  |     | *   | .31 |     |    | *   | .52 |     |      | 1.32 |     |    |    |    |    |    |    | *   | .62 | *    | .80  |       | 5.55 |      |
| Flemington.....                            | Raritan.....    | 1.20         | .60  |      |   |   |   |   |    |   |     |     | .15 | .05 |     |    | .24 |     |     |      | .55  |     |    |    |    |    |    |    | .36 | .20 | .20  | .58  |       | 4.13 |      |
| Highwood.....                              | Hackensack..... | .93          | .49  |      |   |   |   |   |    |   | T.  | T.  | .26 | .14 |     |    | .39 | .06 |     |      | 1.72 |     |    |    |    |    |    |    | .64 | .15 | .06  | .68  |       | 5.52 |      |
| Jersey City.....                           | Coast.....      | *            | 2.45 |      |   |   |   |   |    |   | .01 |     | .24 | .03 | T.  |    | *   | .55 |     |      | 1.19 |     |    |    |    |    |    |    | .60 | .01 | *    | .85  |       | 5.93 |      |
| Lambertville.....                          | Delaware.....   | 1.98         | .79  |      |   |   |   |   |    |   |     |     | .11 | .05 |     |    | .30 | .04 |     |      | .89  |     |    |    |    |    |    |    | .41 | .31 | .26  | .51  |       | 5.65 |      |
| Little Falls.    .....                     | Passaic.....    | .26          | 1.15 |      |   |   |   |   |    |   |     | .01 | .15 | .17 |     |    | .41 |     |     |      | .70  | .40 |    |    |    |    |    |    | .01 | .60 |      | .69  |       | 4.45 |      |
| New Brunswick.....                         | Raritan.....    | .53          | .50  |      |   |   |   |   |    |   |     |     | .25 | .07 |     |    | .31 | .25 |     |      | .83  |     |    |    |    |    |    |    | .18 | .10 | .10  | .50  |       | 3.62 |      |
| New Milford.**.....                        | Hackensack..... | \$           |      |      |   |   |   |   |    |   |     |     | .21 |     |     |    | .28 | .12 |     |      | \$   |     |    |    |    |    |    |    | \$  | .50 |      | \$   | .15   |      | \$   |
| Paterson.....                              | Passaic.....    | .60          | .34  |      |   |   |   |   |    |   | T.  |     | .25 | .08 | T.  |    | .38 | T.  |     |      | 1.20 |     |    |    |    |    |    |    | .56 | .21 | .07  | .68  |       | 4.37 |      |
| Plainfield.....                            | Raritan.....    | 1.78         | .12  |      |   |   |   |   |    |   | .01 |     | .21 | .05 |     |    | *   | .55 |     |      | 1.16 |     |    |    |    |    |    | T. | .51 | .10 | .16  | .51  |       | 5.16 |      |
| Somerville.....                            | Raritan.....    | .58          | .52  |      |   |   |   |   |    |   |     |     | .28 |     |     |    | .30 | .37 |     |      | .72  |     |    |    |    |    |    |    | .24 | .28 | *    | .39  |       | 3.68 |      |
| South Orange.....                          | Rahway.....     | *            | 2.70 |      |   |   |   |   |    |   | T.  |     | .27 | T.  |     |    | .05 | .03 |     |      | .68  |     |    |    |    |    |    |    | .19 |     |      | *    | .61   |      | 4.53 |
| Woodcliff Lake**.....                      | Hackensack..... | \$           |      |      |   |   |   |   |    |   |     |     | .20 |     |     |    | .31 |     |     |      | \$   |     |    |    |    |    |    |    | \$  |     |      | \$   |       | \$   |      |
| New York, N. Y***.....                     | Coast.....      | 2.30         | T.   |      |   |   |   |   |    |   | .01 |     | .23 | .03 | T.  |    | .47 | .01 |     |      | .85  |     |    |    |    |    |    |    | .55 | .02 | .82  | .01  |       | 5.30 |      |
| <i>The Southern Interior.</i>              |                 |              |      |      |   |   |   |   |    |   |     |     |     |     |     |    |     |     |     |      |      |     |    |    |    |    |    |    |     |     |      |      |       |      |      |
| Belleplain.....                            | Tuckahoe.....   | *            | 1.75 |      |   |   |   |   |    |   | *   |     | .26 | .02 |     |    | .05 | .14 |     |      | .94  |     |    |    |    |    |    |    | *   | .32 | .30  | .89  |       | 4.67 |      |
| Bridgeton.....                             | Coast.....      | 1.30         |      |      |   |   |   |   |    |   |     |     | .20 | .05 |     |    | .10 | T.  |     | T.   | .85  |     |    |    |    |    |    |    | T.  | .30 |      | .30  | .40   |      | 3.50 |
| Burlington.....                            | Delaware.....   | *            | 2.10 |      |   |   |   |   |    |   |     |     | T.  |     |     |    | .30 |     |     | 2.35 |      |     |    |    |    |    |    |    | *   | *   | 1.65 |      |       | 6.40 |      |
| Clayton.....                               | Delaware.....   | 1.00         |      |      |   |   |   |   |    |   | .10 | T.  |     |     |     |    | .15 | .09 |     |      | T.   |     |    |    |    |    |    |    | T.  | .40 | .50  | .30  |       | 2.54 |      |
| Hammononton.....                           | Mullica.....    | 1.02         | .04  |      |   |   |   |   |    |   | T.  | T.  | T.  | T.  |     |    | T.  | .52 |     |      | 1.10 |     |    |    |    |    |    | T. | .10 | .12 | 1.32 |      |       | 4.22 |      |
| Hightstown.....                            | Raritan.....    |              |      |      |   |   |   |   |    |   |     |     |     |     |     |    |     |     |     |      |      |     |    |    |    |    |    |    |     |     |      |      |       |      | \$   |
| Imlaystown.....                            | Delaware.....   | \$           | .19  | .04  |   |   |   |   |    |   |     |     | .05 | .05 |     |    | .15 | .27 |     |      | \$   |     |    |    |    |    |    |    |     | .06 | .25  | .03  | \$    |      | \$   |
| Indian Mills.....                          | Mullica.....    | 1.52         | .21  |      |   |   |   |   |    |   | T.  | T.  |     | .08 | .07 |    | .10 | .22 |     |      | .85  |     |    |    |    |    |    |    | .10 | .31 | .25  | .78  |       | 4.49 |      |
| Lakewood.....                              | Metedeconk..... | T.           | 1.05 | .14  |   |   |   |   |    |   |     | .07 | T.  | .22 | .02 |    | .25 | .17 |     |      | 1.25 |     |    |    |    |    |    |    | .18 | .15 | .45  | 1.20 |       | 5.15 |      |
| Moorestown.....                            | Delaware.....   | 2.40         |      |      |   |   |   |   |    |   |     |     | .12 |     |     |    | .38 |     |     |      | .84  |     |    |    |    |    |    |    | .43 |     | 1.10 |      |       | 5.27 |      |
| Northfield.....                            | Coast.....      | .05          | 1.54 | .08  |   |   |   |   |    |   |     | .06 | .10 | .28 | .03 |    | .10 | .09 |     |      | .95  |     |    |    |    |    |    |    | .08 | .15 | .23  | .19  |       | 3.93 |      |
| Pleasantville   .....                      | Coast.....      | .12          | .07  | 1.32 |   |   |   |   |    |   |     | .02 | T.  | .26 | .13 |    |     | .25 | .01 |      | .89  | .04 |    |    |    |    |    |    | .01 | .11 | T.   | .50  |       | 3.73 |      |
| Runyon.....                                | Coast.....      | .38          | .33  |      |   |   |   |   |    |   |     |     | .20 |     |     |    | .25 | .17 |     |      | .86  |     |    |    |    |    |    |    | *   | .66 | .01  | .52  |       | 3.38 |      |
| Trenton**.....                             | Delaware.....   | 1.46         | T.   | T.   |   |   |   |   |    |   |     | T.  |     | .15 | .02 |    | .44 | .01 | T.  | .05  | .80  |     |    |    |    |    |    |    | T.  | .52 |      | .86  | T.    | 4.31 |      |
| Tuckerton.....                             | Coast.....      | .03          | .87  | .38  |   |   |   |   |    |   | .08 | .03 | .22 | .07 |     |    | .11 | .16 |     |      | .95  |     |    |    |    |    |    |    | *   | .20 | .17  | .63  |       | 3.90 |      |
| Vineland.....                              | Maurice.....    | 1.18         |      |      |   |   |   |   |    |   |     |     | .29 |     |     |    | .20 |     |     |      | .89  |     |    |    |    |    |    |    | *   | *   | .83  | .45  |       | 3.84 |      |
| Phila., Pa***.....                         | Delaware.....   | T.           | 1.68 | .05  |   |   |   |   |    |   |     |     | T.  | .09 | .01 |    | .38 | T.  | T.  | .11  | .70  |     |    |    |    |    |    |    | T.  | .41 | .02  | .23  |       | 4.68 |      |
| <i>The Sea Coast.</i>                      |                 |              |      |      |   |   |   |   |    |   |     |     |     |     |     |    |     |     |     |      |      |     |    |    |    |    |    |    |     |     |      |      |       |      |      |
| Asbury Park.....                           | Coast.....      |              | .50  | .60  |   |   |   |   |    |   |     | .02 |     | .20 |     |    | .24 |     |     |      | .95  |     |    |    |    |    |    |    |     | .05 | .45  | .27  |       | 3.28 |      |
| Atlantic City***.....                      | do.....         | .05          | 1.35 | .03  |   |   |   |   |    |   |     | .07 | .07 | .44 | .01 |    | .19 | .01 |     |      | .05  | .94 |    |    |    |    |    |    | T.  | .16 | .17  | .56  |       | 4.10 |      |
| Cape May City.....                         | do.....         | .11          | 2.53 | .04  |   |   |   |   |    |   |     | .27 | .18 | .35 | .05 |    | .10 | .02 |     |      | .90  |     |    |    |    |    |    |    | .05 | .22 | .52  | T.   |       | 5.34 |      |
| Long Branch**.....                         | do.....         | T.           | 1.09 | .17  |   |   |   |   |    |   |     | .01 |     | .40 | .09 |    | .30 | .01 |     |      | .92  |     |    |    |    |    |    |    |     | .36 | .03  | 1.18 |       | 4.56 |      |
| Sandy Hook***.....                         | do.....         |              | .90  | .12  |   |   |   |   |    |   |     | .01 |     | .21 | .02 |    | .43 | .01 | T.  |      | .65  |     |    |    |    |    |    |    | T.  | .52 | .06  | .81  | T.    | 3.74 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                                |                                        | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-----------------------------------------|----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity.<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                         |                                        |               |
| Atlantic City.....    | 30.18        | 30.66   | 23   | 29.40  | 29   | 21.3            | 78             | ne.       | 2    | 80                                      | 76                                     | 43            |
| Cape May City.....    | 30.22        | 30.67   | 24   | 29.46  | 29   | 10.5            | 38             | ne.       | 2    | 85                                      | 84                                     | .....         |
| Long Branch.....      |              |         |      |        |      |                 | 66             | ne.       | 2    |                                         |                                        | .....         |
| New York, N. Y.....   | 30.19        | 30.69   | 1    | 29.32  | 29   | 18.9            | 68             | n.w.      | 23   | 73                                      | 65                                     | 56            |
| Philadelphia, Pa..... | 30.20        | 30.69   | 23   | 29.53  | 29   | 10.9            | 35             | ne.       | 2    | 77                                      | 65                                     | 41            |
| Sandy Hook.....       | 30.18        | 30.66   | 1    | 29.31  | 29   | 19.7            | 62             | n.        | 20   | 77                                      | 72                                     | 49            |
| Trenton.....          | 30.19        | 30.71   | 24   | 29.47  | 29   | 11.8            | 46             | e.        | 20   | 76                                      | 66                                     | 47            |



## Daily Temperatures for January, 1925

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25  | 26 | 27 | 28 | 29  | 30  | 31 | Mean              |                   |                   |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|-----|-----|----|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |     |     |    |                   |                   |                   |
| Belvidere.....                       | Maximum | 24 | 23 | 35 | 42 | 48 | 32 | 33 | 42 | 36 | 30 | 29 | 28 | 30 | 28 | 20 | 32 | 41 | 33 | 30 | 30 | 40 | 41 | 39 | 21  | 41 | 40 | 38 | 11  | 20  | 39 | 41                | 32.8              |                   |
|                                      | Minimum | 11 | 13 | 21 | 28 | 17 | 16 | 7  | 15 | 12 | 12 | 21 | 11 | 19 | 10 | -8 | 2  | 30 | 25 | 28 | 28 | 34 | 44 | 41 | 17  | 13 | 22 | 8  | -9  | -8  | 18 | 17                | 11.5              |                   |
| Charlotteburg.....                   | Maximum | 30 | 32 | 41 | 38 | 38 | 38 | 40 | 42 | 36 | 30 | 29 | 28 | 34 | 32 | 27 | 32 | 42 | 29 | 28 | 28 | 34 | 44 | 41 | 17  | 13 | 22 | 8  | -9  | -8  | 18 | 17                | 11.5              |                   |
|                                      | Minimum | 0  | 11 | 21 | 20 | 22 | 11 | 5  | 20 | 15 | 11 | 23 | 11 | 21 | 15 | 3  | 4  | 29 | 15 | 10 | 15 | 21 | 16 | 0  | -4  | 12 | 19 | 6  | -10 | -15 | 20 | 22                | 11.9              |                   |
| Dover.....                           | Maximum | 28 | 26 | 34 | 40 | 38 | 38 | 37 | 41 | 35 | 31 | 30 | 25 | 32 | 29 | 27 | 36 | 41 | 33 | 25 | 28 | 36 | 42 | 44 | 22  | 43 | 43 | 13 | -8  | -5  | 22 | 23                | 14.1 <sup>b</sup> |                   |
|                                      | Minimum | 12 | 18 | 26 | 27 | 16 | 10 | 22 | 11 | 17 | 19 | 15 | 22 | 15 | 1  | 6  | 26 | 23 | 11 | 11 | 16 | 15 | -2 | -2 | 19  | 22 | 13 | -8 | -5  | 22  | 23 | 14.1 <sup>b</sup> |                   |                   |
| Layton.....                          | Maximum | 25 | 24 | 32 | 39 | 39 | 37 | 35 | 41 | 37 | 27 | 30 | 21 | 37 | 32 | 23 | 26 | 41 | 35 | 33 | 28 | 40 | 45 | 42 | 18  | 38 | 43 | 40 | 21  | 21  | 32 | 39                | 32.9              |                   |
|                                      | Minimum | 8  | 14 | 24 | 28 | 21 | 13 | 9  | 10 | 8  | 18 | 12 | 21 | 11 | -9 | 7  | 14 | 31 | 20 | 8  | 10 | 19 | 15 | 2  | -7  | 11 | 26 | 3  | -12 | -8  | 17 | 20                | 13.1              |                   |
| Newton.....                          | Maximum | 30 | 21 | 32 | 40 | 38 | 34 | 37 | 45 | 38 | 30 | 29 | 21 | 34 | 33 | 23 | 35 | 42 | 35 | 34 | 26 | 36 | 45 | 35 | 17  | 41 | 42 | 40 | 10  | 20  | 34 | 36                | 32.7              |                   |
|                                      | Minimum | 5  | 10 | 20 | 26 | 24 | 18 | 18 | 26 | 17 | 15 | 13 | 8  | 19 | 14 | 4  | 14 | 31 | 20 | 8  | 10 | 19 | 15 | 2  | -7  | 11 | 26 | 3  | -12 | -8  | 17 | 20                | 13.1              |                   |
| Phillipsburg.....                    | Maximum | 30 | 25 | 33 | 41 | 31 | 31 | 41 | 41 | 30 | 30 | 31 | 21 | 36 | 31 | 25 | 28 | 40 | 35 | 24 | 27 | 39 | 44 | 41 | 22  | 39 | 44 | 39 | 13  | 19  | 35 | 39                | 32.8              |                   |
|                                      | Minimum | 14 | 16 | 25 | 29 | 18 | 14 | 11 | 19 | 14 | 14 | 22 | 13 | 24 | 11 | -2 | 6  | 30 | 24 | 11 | 19 | 18 | 7  | 5  | -3  | 20 | 25 | 8  | -8  | -8  | 26 | 22                | 14.3              |                   |
| Sussex.....                          | Maximum | 29 | 22 | 33 | 40 | 39 | 34 | 34 | 43 | 39 | 31 | 31 | 21 | 36 | 31 | 25 | 28 | 40 | 35 | 24 | 27 | 39 | 44 | 41 | 22  | 39 | 44 | 39 | 13  | 19  | 35 | 39                | 32.8              |                   |
|                                      | Minimum | 7  | 12 | 22 | 27 | 23 | 13 | 8  | 20 | 11 | 9  | 19 | 10 | 20 | 14 | 14 | 9  | 27 | 18 | 6  | 12 | 18 | 16 | 4  | -10 | 14 | 20 | 7  | -16 | 19  | 20 | 13.1 <sup>a</sup> |                   |                   |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |     |     |    |                   |                   |                   |
| Bergen Point.....                    | Maximum | 29 | 28 | 35 | 35 | 41 | 37 | 40 | 44 | 37 | 32 | 31 | 29 | 37 | 33 | 28 | 39 | 42 | 36 | 32 | 34 | 37 | 44 | 40 | 22  | 42 | 43 | 41 | 12  | 33  | 35 | 41                | 35.1              |                   |
|                                      | Minimum | 15 | 15 | 28 | 28 | 26 | 26 | 20 | 32 | 23 | 25 | 21 | 20 | 27 | 20 | 12 | 20 | 34 | 20 | 19 | 20 | 27 | 21 | 7  | 4   | 18 | 29 | 9  | 3   | 8   | 25 | 30                | 20.4              |                   |
| Boonton§§.....                       | Maximum | 26 | 31 | 38 | 39 | 40 | 38 | 38 | 43 | 37 | 31 | 31 | 31 | 36 | 31 | 28 | 44 | 45 | 32 | 26 | 34 | 37 | 45 | 15 | 29  | 44 | 41 | 23 | 21  | 32  | 35 | 39                | 34.2              |                   |
|                                      | Minimum | 11 | 11 | 19 | 20 | 14 | 5  | 6  | 7  | 13 | 19 | 11 | 18 | 11 | 11 | -4 | 15 | 24 | 11 | 11 | 22 | 15 | 6  | -4 | -3  | 21 | 21 | -7 | -5  | 13  | 18 | 10.7 <sup>b</sup> |                   |                   |
| Elizabeth.....                       | Maximum | 34 | 28 | 34 | 30 | 22 | 22 | 12 | 26 | 19 | 21 | 27 | 19 | 26 | 14 | 4  | 13 | 34 | 28 | 18 | 25 | 24 | 17 | 9  | 1   | 14 | 26 | 12 | 4   | 25  | 21 | 18.5              |                   |                   |
|                                      | Minimum | 16 | 21 | 26 | 30 | 22 | 22 | 12 | 26 | 19 | 21 | 27 | 19 | 26 | 14 | 4  | 13 | 34 | 28 | 18 | 25 | 24 | 17 | 9  | 1   | 14 | 26 | 12 | 4   | 25  | 21 | 18.5              |                   |                   |
| Flemington.....                      | Maximum | 33 | 26 | 37 | 40 | 46 | 38 | 35 | 45 | 39 | 31 | 32 | 38 | 37 | 34 | 30 | 33 | 42 | 38 | 32 | 32 | 38 | 45 | 44 | 27  | 43 | 42 | 40 | 13  | 25  | 37 | 40                | 35.5              |                   |
|                                      | Minimum | 17 | 20 | 25 | 27 | 16 | 17 | 3  | 12 | 16 | 16 | 26 | 17 | 25 | 12 | -6 | 5  | 32 | 28 | 10 | 21 | 20 | 1  | 8  | -7  | 12 | 22 | 12 | -8  | -9  | 24 | 19                | 14.0              |                   |
| Highwood.....                        | Maximum | 28 | 27 | 35 | 38 | 33 | 35 | 36 | 43 | 34 | 32 | 30 | 26 | 36 | 33 | 26 | 34 | 42 | 36 | 26 | 32 | 31 | 43 | 38 | 21  | 41 | 41 | 39 | 12  | 30  | 35 | 40                | 33.3              |                   |
|                                      | Minimum | 13 | 12 | 24 | 28 | 19 | 17 | 8  | 25 | 14 | 18 | 20 | 19 | 26 | 11 | 0  | 10 | 32 | 22 | 11 | 21 | 21 | 17 | 4  | -5  | 16 | 23 | 6  | -6  | -5  | 25 | 23                | 15.1              |                   |
| Jersey City.....                     | Maximum | 27 | 29 | 34 | 43 | 41 | 39 | 40 | 44 | 37 | 35 | 34 | 30 | 36 | 32 | 28 | 40 | 43 | 34 | 30 | 34 | 36 | 44 | 39 | 23  | 43 | 44 | 42 | 19  | 29  | 36 | 40                | 35.6              |                   |
|                                      | Minimum | 20 | 24 | 28 | 30 | 28 | 29 | 26 | 29 | 22 | 29 | 24 | 22 | 26 | 19 | 16 | 24 | 32 | 26 | 20 | 24 | 26 | 24 | 7  | 3   | 21 | 33 | 7  | -3  | 15  | 25 | 25                | 22.0              |                   |
| Lambertville.....                    | Maximum | 26 | 31 | 37 | 41 | 42 | 39 | 37 | 41 | 35 | 35 | 32 | 31 | 38 | 28 | 25 | 41 | 45 | 32 | 27 | 29 | 39 | 42 | 19 | 36  | 42 | 45 | 25 | 21  | 27  | 35 | 42                | 34.4              |                   |
|                                      | Minimum | 15 | 20 | 25 | 29 | 22 | 23 | 20 | 27 | 20 | 25 | 26 | 16 | 26 | 15 | 8  | 14 | 31 | 28 | 16 | 22 | 22 | 19 | 9  | 2   | 42 | 19 | 40 | 45  | 25  | 21 | 27                | 35                | 33.3 <sup>a</sup> |
| Little Falls§§.....                  | Maximum | 26 | 31 | 37 | 41 | 42 | 39 | 37 | 41 | 35 | 35 | 32 | 31 | 38 | 28 | 25 | 41 | 45 | 32 | 27 | 29 | 39 | 42 | 19 | 36  | 42 | 45 | 25 | 21  | 27  | 35 | 42                | 34.4              |                   |
|                                      | Minimum | 13 | 16 | 21 | 25 | 22 | 14 | 10 | 12 | 13 | 18 | 23 | 18 | 21 | 18 | 1  | 7  | 14 | 24 | 10 | 13 | 24 | 19 | 7  | -2  | 2  | 22 | 21 | -12 | 2   | 15 | 22                | 14.0              |                   |
| New Brunswick.....                   | Maximum | 33 | 29 | 35 | 38 | 41 | 39 | 40 | 43 | 39 | 32 | 33 | 28 | 37 | 36 | 30 | 35 | 44 | 38 | 31 | 34 | 34 | 44 | 43 | 21  | 43 | 43 | 41 | -13 | 28  | 34 | 41                | 35.5              |                   |
|                                      | Minimum | 16 | 21 | 25 | 30 | 22 | 23 | 13 | 31 | 30 | 31 | 27 | 18 | 27 | 15 | 2  | 10 | 34 | 28 | 17 | 24 | 24 | 17 | 10 | -2  | 15 | 29 | 11 | -5  | 5   | 25 | 21                | 18.8              |                   |
| Paterson.....                        | Maximum | 36 | 26 | 35 | 43 | 41 | 39 | 39 | 46 | 37 | 32 | 33 | 27 | 37 | 34 | 27 | 34 | 44 | 38 | 30 | 30 | 36 | 44 | 42 | 23  | 42 | 43 | 40 | 13  | 27  | 35 | 42                | 35.3              |                   |
|                                      | Minimum | 20 | 19 | 25 | 28 | 24 | 24 | 15 | 27 | 20 | 23 | 25 | 18 | 26 | 18 | 11 | 17 | 34 | 30 | 18 | 22 | 25 | 9  | 3  | 18  | 27 | 9  | -5 | 5   | 20  | 24 | 19.3 <sup>a</sup> |                   |                   |
| Plainfield.....                      | Maximum | 26 | 28 | 34 | 40 | 42 | 40 | 38 | 44 | 37 | 31 | 33 | 28 | 36 | 32 | 28 | 38 | 43 | 34 | 28 | 32 | 36 | 44 | 33 | 19  | 44 | 43 | 39 | 15  | 29  | 37 | 40                | 34.5              |                   |
|                                      | Minimum | 18 | 15 | 27 | 30 | 21 | 13 | 7  | 17 | 15 | 15 | 24 | 17 | 25 | 13 | -2 | 7  | 34 | 24 | 12 | 22 | 23 | 11 | 5  | -4  | 13 | 21 | 7  | -7  | -9  | 24 | 17                | 14.8              |                   |
| Somerville.....                      | Maximum | 35 | 30 | 38 | 41 | 42 | 40 | 40 | 45 | 39 | 32 | 34 | 29 | 37 | 34 | 28 | 35 | 42 | 39 | 30 | 33 | 36 | 43 | 42 | 20  | 41 | 44 | 38 | 18  | 27  | 36 | 41                | 35.8              |                   |
|                                      | Minimum | 11 | 21 | 25 | 29 | 13 | 15 | 8  | 16 | 8  | 14 | 28 | 18 | 27 | 7  | -6 | 6  | 32 | 28 | 10 | 23 | 22 | 2  | 9  | -6  | 10 | 20 | 13 | -5  | 5   | 25 | 16                | 14.5              |                   |
| South Orange.....                    | Maximum | 26 | 27 | 34 | 39 | 38 | 38 | 38 | 43 | 34 | 32 | 31 | 27 | 35 | 31 | 25 | 38 | 42 | 33 | 26 | 32 | 33 | 44 | 22 | 22  | 41 | 43 | 39 | 13  | 33  | 34 | 39                | 33.3              |                   |
|                                      | Minimum | 14 | 20 | 27 | 29 | 23 | 20 | 17 | 27 | 21 | 26 | 18 | 17 | 20 | 16 | 5  | 30 | 26 | 17 | 22 | 20 | 18 | 2  | 0  | 22  | 28 | 5  | -3 | 10  | 24  | 23 | 17.7              |                   |                   |
| New York, N. Y.....                  | Maximum | 27 | 30 | 34 | 41 | 41 | 38 | 41 | 45 | 36 | 37 | 34 | 30 | 37 | 32 | 28 | 41 | 44 | 33 | 30 | 35 | 36 | 43 | 26 | 24  | 43 | 46 | 44 | 20  | 34  | 35 | 39                | 35.7              |                   |
|                                      | Minimum | 20 | 24 | 29 | 30 | 29 | 30 | 28 | 31 | 24 | 30 | 24 | 22 | 27 | 19 | 16 | 26 | 32 | 25 | 20 | 25 | 26 | 26 | 3  | 2   | 23 | 36 | 5  | -1  | 17  | 25 | 26                | 22.5              |                   |
| The Southern Interior.               |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |     |     |    |                   |                   |                   |
| Belleplain.....                      | Maximum | 42 | 42 | 36 | 40 | 45 | 43 | 49 | 46 | 41 | 33 | 34 | 37 | 39 | 35 | 37 | 49 | 48 | 41 | 35 | 45 | 40 | 54 | 45 | 29  | 54 | 57 | 52 | 24  | 41  | 46 | 41.9 <sup>a</sup> |                   |                   |
|                                      | Minimum | 24 | 29 | 29 | 30 | 17 | 20 | 14 | 37 | 16 | 28 | 30 | 27 | 30 | 16 | 9  | 11 | 35 | 33 | 21 | 31 | 27 |    |    |     |    |    |    |     |     |    |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXX.

FEBRUARY, 1925.

No. 2

### GENERAL SUMMARY.

February was remarkable as being one of the few warm winter months; in but four other instances has it been warmer in either January or February in 40 years, and in those cases there was but slight excess above the 1925 record. It was persistently warm for long periods: on the 1st, 2d, from the 5th to 12th, 14th to 17th, and from the 19th to 25th, averaging for the whole State, 7.5° above normal. There was but one snowstorm and that amounted to but little over an inch in the northern counties and less than a tenth of an inch in southern districts. Snow cover which remained on the ground from January was rapidly depleted by the warmth, and depths of some 20 inches in northern counties had melted by the middle of the month. This general thaw, together with a generous rain of the 10th, 11th and 12th caused floods and breaking up of the ice in the rivers. The ice went out of the Delaware on the 12-13th, with a flood which slightly exceeded the record for several years, but no damage of importance occurred. Floods also occurred in the streams in the northeastern counties, and considerable damage and distress was the result. Ice remained in lakes and ponds, but frost was almost entirely out of the ground by the end of the third week. The month closed with a cold wave, when the lowest temperatures of the month, for many localities, occurred. A very unusual feature for a mid-winter month was the prevailing wind of the southern half of the State, which was from the south and southwest. Altogether it was a February of the most pleasant weather for over fifteen years.

Storm warnings were displayed along the coast on the 2d, 3d, 11th, 12th, 21st, 23d, 26th and 27th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 37.3°, which was 7.5° above normal. The highest temperature was 72° at Vineland on the 22d, and the lowest, 1° below zero, at Culvers Lake on the 3d.

The greatest daily range of temperature was 40° at Belleplain and Indian Mills on the 8th. The highest monthly mean temperature was 42.8° at Vineland, and the lowest, 32.4° at Layton.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +2.0°; Red Sandstone Plain, +1.3°; Southern Interior, +3.6°; Sea Coast, +3.0°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 2.23 inches, which was 1.38 inches below normal. The average total snowfall at fourteen selected stations was 0.7 inch, which was 8.2 inches below normal. The greatest monthly precipitation was 4.64 inches, at Dover, and the least, 1.18 inches at Cape May City. The greatest amount of precipitation in any 24 consecutive hours was 1.95 inches at Dover on the 10th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 7, or 2 less than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, +0.63 inch; Red Sandstone Plain, -0.46 inch; Southern Interior, -1.06 inches; Sea Coast, -1.57 inches.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 13 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive minutes, was 10 miles per hour from the west at Long Branch and Sandy Hook on the 26th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 12, which was 1 more than normal; partly cloudy, 6, or 2 less than normal; cloudy, 10, or 1 more than normal. The per cent of possible sunshine was 59, which was 3 per cent above normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.07 inches, which was 0.03 inch below normal. The highest reading was 30.51 inches at Cape May City on the 28th, and the lowest, 29.21 inches at Sandy Hook on the 26th.

The mean stage of the Delaware River at Phillipsburg was 8.1 feet, and the highest stage was 21.0 feet on the 12th. At Trenton the mean stage was 5.2 feet, which was 1.9 feet above normal. The highest stage was 13.0 feet on the 13th. Dense fog occurred on the 9th, 10th, 11th, 12th, 15th, 17th, 21st, 22d, 23d, 24th and 25th. Sleet fell on the 12th and 26th. Solar halos were noted on the 10th, 16th and 18th, and lunar halos on the 6th, 7th, 9th and 28th. Thunderstorms occurred on the 15th, 23d, 24th and 26th.

### COMPARATIVE DATA FOR FEBRUARY

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 23.9        | 54      | -2     | 3.93          | 5.85     | 1.44  | .....      | .....         | .....  | .....                  |
| 1886..... | 28.9        | 64      | -10    | 5.42          | 8.00     | 4.13  | .....      | .....         | .....  | .....                  |
| 1887..... | 33.9        | 69      | 6      | 5.24          | 6.74     | 4.13  | .....      | .....         | 13     | 13                     |
| 1888..... | 30.6        | 60      | -5     | 3.53          | 6.01     | 2.04  | .....      | .....         | 9      | 8                      |
| 1889..... | 27.7        | 53      | -3     | 2.49          | 3.80     | 1.65  | .....      | .....         | 9      | 8                      |
| 1890..... | 39.9        | 76      | 14     | 4.17          | 5.32     | 2.43  | .....      | .....         | 12     | 10                     |
| 1891..... | 38.0        | 71      | 1      | 5.11          | 7.20     | 3.70  | 6          | 9             | 13     | 14                     |
| 1892..... | 33.6        | 58      | 7      | 1.63          | 3.62     | 0.67  | 7          | 9             | 13     | 7                      |
| 1893..... | 30.1        | 63      | -1     | 5.73          | 8.90     | 3.14  | 7          | 8             | 13     | 11                     |
| 1894..... | 29.7        | 62      | -11    | 4.42          | 6.17     | 3.25  | 9          | 8             | 11     | 11                     |
| 1895..... | 23.6        | 57      | -12    | 1.28          | 2.34     | 0.65  | 13         | 9             | 6      | 5                      |
| 1896..... | 32.1        | 62      | -12    | 6.77          | 10.06    | 4.82  | 9          | 9             | 11     | 12                     |
| 1897..... | 32.5        | 59      | -6     | 3.61          | 6.37     | 2.38  | 8          | 10            | 10     | 8                      |
| 1898..... | 32.7        | 65      | -15    | 3.48          | 5.45     | 1.55  | 12         | 7             | 9      | 9                      |
| 1899..... | 25.8        | 60      | -17    | 6.06          | 8.77     | 3.78  | 10         | 6             | 12     | 15                     |
| 1900..... | 31.0        | 69      | -6     | 5.30          | 7.88     | 3.27  | 9          | 9             | 10     | 10                     |
| 1901..... | 25.4        | 52      | -6     | 0.94          | 1.65     | 0.69  | 15         | 9             | 4      | 4                      |
| 1902..... | 27.4        | 62      | -7     | 6.24          | 8.44     | 4.29  | 12         | 6             | 10     | 9                      |
| 1903..... | 33.7        | 70      | -16    | 4.87          | 6.60     | 3.74  | 12         | 8             | 8      | 10                     |
| 1904..... | 24.8        | 65      | -16    | 2.45          | 3.09     | 1.36  | 13         | 8             | 8      | 8                      |
| 1905..... | 23.4        | 53      | -18    | 2.53          | 3.96     | 0.70  | 14         | 7             | 7      | 7                      |
| 1906..... | 30.9        | 64      | -12    | 2.58          | 3.85     | 1.77  | 14         | 7             | 7      | 7                      |
| 1907..... | 23.6        | 55      | -22    | 2.67          | 3.90     | 1.82  | 14         | 7             | 7      | 8                      |
| 1908..... | 28.1        | 65      | -17    | 4.79          | 7.44     | 2.85  | 10         | 10            | 9      | 9                      |
| 1909..... | 37.8        | 72      | -2     | 4.96          | 6.78     | 3.55  | 6          | 10            | 12     | 12                     |
| 1910..... | 30.5        | 69      | -11    | 3.08          | 4.81     | 1.06  | 10         | 9             | 9      | 10                     |
| 1911..... | 30.9        | 67      | -12    | 2.78          | 4.06     | 1.76  | 8          | 7             | 13     | 11                     |
| 1912..... | 27.7        | 61      | -14    | 2.49          | 3.12     | 1.68  | 11         | 12            | 6      | 5                      |
| 1913..... | 30.6        | 70      | -5     | 2.49          | 3.21     | 1.48  | 16         | 6             | 6      | 7                      |
| 1914..... | 25.9        | 67      | -12    | 2.85          | 4.94     | 1.89  | 12         | 7             | 9      | 9                      |
| 1915..... | 35.7        | 75      | -7     | 5.37          | 7.28     | 2.97  | 11         | 6             | 11     | 8                      |
| 1916..... | 28.1        | 63      | -18    | 4.21          | 6.17     | 2.84  | 10         | 6             | 13     | 11                     |
| 1917..... | 28.1        | 62      | -19    | 1.95          | 2.50     | 0.92  | 10         | 9             | 9      | 11                     |
| 1918..... | 29.0        | 67      | -23    | 2.08          | 3.41     | 1.03  | 12         | 8             | 8      | 7                      |
| 1919..... | 33.6        | 65      | 4      | 3.39          | 6.48     | 1.37  | 15         | 4             | 9      | 10                     |
| 1920..... | 27.9        | 54      | -17    | 4.20          | 7.20     | 2.39  | 11         | 8             | 10     | 11                     |
| 1921..... | 34.0        | 71      | -5     | 3.81          | 5.82     | 2.58  | 10         | 8             | 10     | 10                     |
| 1922..... | 33.6        | 73      | -10    | 2.94          | 4.60     | 1.80  | 10         | 8             | 10     | 10                     |
| 1923..... | 26.1        | 56      | -12    | 2.58          | 3.74     | 1.51  | 10         | 8             | 10     | 12                     |
| 1924..... | 28.9        | 62      | -3     | 4.10          | 6.11     | 2.45  | 13         | 5             | 11     | 9                      |
| 1925..... | 37.3        | 72      | -1     | 2.23          | 4.64     | 1.18  | 12         | 6             | 10     | 7                      |



## Climatological Data for February, 1925

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                          |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|--------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
|                                             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |            |                              |           |                                                                                                                          |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |            |                              |           |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 34                      | 33.2                         | +6.1                      | 63      | 22    | 3      | 5     | 35                       | 3.30  | -0.54                     | 1.04                 | .....                     | 8                        | 18    | 2          | 8                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 33                      | 33.5                         | +7.9                      | 63      | 8     | 6      | 3     | 38                       | 3.97  | -0.05                     | 0.84                 | 1.5                       | 5                        | 14    | 2          | 12                           | w.        |                                                                                                                          |
| Culvers Lake††.....                         | Sussex.....     | 848             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.11  | -0.95                     | 0.60                 | 3.7                       | 7                        | 13    | 6          | 9                            | e.        |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 41                      | 35.1 <sup>a</sup>            | +8.9                      | 62      | 22    | 8      | 3†    | 32                       | 4.64  | +0.61                     | 1.95                 | 0.5                       | 8                        | 10    | 8          | 10                           | .....     |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 24                      | 32.4                         | +8.8                      | 61      | 22    | 0      | 3     | 37                       | 2.56  | -0.18                     | 0.72                 | 3.0                       | 7                        | 19    | 1          | 8                            | s.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton††.....                               | Sussex.....     | 769             | 42                      | 36.0 <sup>b</sup>            | +9.5                      | 60      | 8†    | 3      | 3     | 38                       | 3.04  | -0.52                     | 0.68                 | 2.0                       | 8                        | 13    | 4          | 11                           | sw.       |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 42                      | 34.2 <sup>b</sup>            | +6.3                      | 60      | 22    | 9      | 3     | 31                       | 2.52  | -1.12                     | 0.78                 | T.                        | 7                        | 12    | 7          | 9                            | .....     |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 33.8 <sup>b</sup>            | +8.4                      | 59      | 8     | 4      | 3     | 34                       | 3.32  | -0.06                     | 0.85                 | 1.1                       | 7                        | 13    | 4          | 11                           | w.        |                                                                                                                          |
| Means and extremes.....                     |                 |                 |                         | 38.7                         | +7.7                      | 63      | 8†    | -1     | 3     | 38                       | 3.20  | -0.33                     | 1.95                 | 1.6                       | 7                        | 14    | 4          | 10                           | w.        |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37              | 28                      | 37.8                         | +8.4                      | 62      | 22    | 13     | 28    | 23                       | 2.15  | -1.83                     | 0.52                 | T.                        | 7                        | 5     | 13         | 10                           | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bounett.                                                |
| Boonton.....                                | Morris.....     | 400             | 35                      | 32.7                         | +5.6                      | 63      | 22    | 9      | 3†    | 38                       | 2.92  | -1.05                     | 0.64                 | .....                     | 8                        | 15    | 0          | 13                           | sw.       |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 21                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 4.10  | +0.67                     | 1.03                 | .....                     | 8                        | 15    | 4          | 9                            | .....     |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 46                      | 36.9                         | +6.4                      | 64      | 22    | 10     | 28    | 29                       | 2.34  | -1.83                     | 0.64                 | T.                        | 8                        | 10    | 8          | 10                           | ne.       |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 39                      | 34.8                         | +6.0                      | 63      | 22    | 9      | 3     | 34                       | 2.41  | -1.13                     | 0.65                 | T.                        | 7                        | 15    | 2          | 11                           | ne.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                             | Bergen.....     | 90              | 37                      | 35.0                         | +6.6                      | 63      | 22    | 11     | 28    | 31                       | 2.81  | -1.45                     | 0.76                 | 1.5                       | 7                        | 9     | 5          | 14                           | ne.       |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 27                      | 38.5                         | +7.9                      | 63      | 22    | 12     | 28    | 21                       | 2.04  | -1.68                     | 0.58                 | 0.6                       | 7                        | 10    | 8          | 10                           | nw.       |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 38                      | 36.0                         | +5.6                      | 62      | 23    | 9      | 3     | 26                       | 2.21  | -1.27                     | 0.80                 | T.                        | 10                       | 11    | 6          | 11                           | nw.       |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 22                      | 34.3                         | +4.7                      | 65      | 22    | 10     | 3     | 36                       | 3.21  | -0.26                     | 1.02                 | 0.3                       | 8                        | 12    | 6          | 10                           | nw.       | Passaic Consolid. Water Co.<br>N. J. Experiment Station.<br>Hackensack Water Co.<br>Marion T. Probert.                   |
| New Brunswick.....                          | Middlesex.....  | 110             | 72                      | 37.5                         | +6.7                      | 66      | 23    | 12     | 3†    | 31                       | 2.21  | -1.41                     | 0.66                 | T.                        | 7                        | 11    | 8          | 9                            | sw.       |                                                                                                                          |
| New Milford††.....                          | Bergen.....     | 9               | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.58  | .....                     | 0.77                 | .....                     | 6                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 54                      | 36.9                         | +6.7                      | 65      | 22    | 12     | 28    | 32                       | 2.77  | -1.44                     | 0.82                 | 2.0                       | 6                        | 8     | 1          | 19                           | sw.       |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120             | 37                      | 35.5                         | +6.8                      | 65      | 22    | 10     | 28    | 35                       | 2.21  | -1.75                     | 0.57                 | 0.5                       | 7                        | 11    | 7          | 10                           | nw.       | E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                                           |
| Somerville.....                             | Somerset.....   | 70              | 42                      | 35.5                         | +6.6                      | 66      | 22    | 10     | 5     | 36                       | 2.28  | -1.50                     | 0.47                 | .....                     | 6                        | 16    | 1          | 11                           | w.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 55                      | 35.6                         | +6.6                      | 61      | 22    | 11     | 28    | 23                       | 1.46  | -2.47                     | 0.40                 | 0.5                       | 6                        | 9     | 10         | 9                            | nw.       |                                                                                                                          |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.64  | .....                     | 0.78                 | .....                     | 7                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| New York, N. Y.....                         |                 | 365             | 55                      | 38.5                         | +7.2                      | 63      | 22    | 12     | 28    | 22                       | 1.92  | -1.95                     | 0.68                 | 0.6                       | 8                        | 9     | 7          | 12                           | nw.       | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....                     |                 |                 |                         | 35.9                         | +6.5                      | 66      | 22†   | 9      | 3†    | 38                       | 2.52  | -1.31                     | 1.03                 | 0.5                       | 7                        | 11    | 6          | 11                           | nw.       |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |            |                              |           |                                                                                                                          |
| Belleplain.....                             | Cape May.....   | 30              | 31                      | 41.4 <sup>b</sup>            | +9.9                      | 69      | 9     | 14     | 28    | 40                       | 1.42  | -2.17                     | 0.60                 | .....                     | 10                       | 17    | 5          | 6                            | sw.       | Thomas J. Durell.<br>Henry A. Jordan.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                              | Cumberland..... | 30              | 44                      | 41.7                         | +8.0                      | 70      | 22    | 14     | 3     | 36                       | 1.67  | -2.15                     | 0.47                 | .....                     | 7                        | 16    | 0          | 12                           | se.       |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 59                      | 39.3                         | +8.0                      | 67      | 22    | 10     | 28    | 34                       | 2.23  | -1.27                     | 0.63                 | T.                        | 7                        | 14    | 7          | 7                            | nw.       |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 29                      | .....                        | .....                     | 71      | 23    | .....  | ..... | .....                    | ..... | .....                     | 1.30                 | T.                        | 7                        | 16    | 3          | 9                            | ne.       |                                                                                                                          |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                    | ..... | .....      | .....                        | .....     | Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.<br>James M. Armstrong.                               |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | 37.4                         | +8.0                      | 67      | 23    | 10     | 27†   | 31                       | ..... | .....                     | .....                | .....                     | .....                    | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 39.5                         | +9.1                      | 70      | 11    | 12     | 28    | 29                       | 1.58  | -1.96                     | 0.45                 | .....                     | 11                       | 14    | 8          | 6                            | sw.       |                                                                                                                          |
| Indian Mills††.....                         | Burlington..... | 76              | 36                      | 41.2                         | +9.4                      | 69      | 9†    | 12     | 28    | 40                       | 2.38  | -1.07                     | 0.88                 | T.                        | 7                        | 12    | 8          | 8                            | ne.       |                                                                                                                          |
| Lakewood.....                               | Ocean.....      | 54              | 21                      | 39.1                         | +9.4                      | 70      | 23    | 12     | 28    | 39                       | 1.35  | -2.22                     | 0.52                 | .....                     | 7                        | 12    | 3          | 13                           | sw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                             | Burlington..... | 75              | 62                      | 40.7                         | +9.4                      | 69      | 22    | 13     | 28    | 36                       | 1.45  | -2.03                     | 0.42                 | .....                     | 6                        | 10    | 8          | 10                           | sw.       |                                                                                                                          |
| Northfield††.....                           | Atlantic.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.29  | .....                     | 0.48                 | .....                     | 8                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville††.....                        | Atlantic.....   | 26              | 27                      | 38.6                         | .....                     | 62      | 22    | 14     | 28    | 30                       | 1.26  | -1.55                     | 0.41                 | T.                        | 8                        | 17    | 8          | 3                            | sw.       |                                                                                                                          |
| Runyon††.....                               | Middlesex.....  | 18              | .....                   | 36.4                         | .....                     | 66      | 24    | 8      | 5     | 39                       | 2.02  | .....                     | 0.50                 | T.                        | 7                        | 16    | 6          | 6                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                                | Mercer.....     | 190             | 53                      | 40.2                         | +9.5                      | 67      | 10    | 13     | 28    | 27                       | 2.01  | -1.18                     | 0.67                 | 0.2                       | 7                        | 9     | 5          | 14                           | s.        |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 32                      | 39.8                         | +9.0                      | 64      | 22    | 14     | 28    | 33                       | 1.33  | -2.33                     | 0.47                 | .....                     | 9                        | 14    | 8          | 6                            | s.        |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 56                      | 42.8                         | +10.3                     | 72      | 22    | 16     | 28    | 37                       | 1.78  | -1.94                     | 0.90                 | .....                     | 5                        | 13    | 8          | 7                            | sw.       |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 42.2                         | +8.3                      | 65      | 10    | 15     | 28    | 24                       | 1.66  | -1.72                     | 0.52                 | 0.3                       | 7                        | 9     | 10         | 9                            | nw.       |                                                                                                                          |
| Means and extremes.....                     |                 |                 |                         | 39.9                         | +9.1                      | 72      | 22    | 8      | 5     | 40                       | 1.67  | -1.81                     | 0.90                 | T.                        | 8                        | 14    | 6          | 8                            | sw.       |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                          |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 36                      | 38.2                         | +6.8                      | 58      | 22    | 13     | 28    | 31                       | 1.52  | -1.98                     | 0.41                 | T.                        | 8                        | 15    | 10         | 3                            | sw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 51                      | 39.8                         | +6.2                      | 55      | 10    | 17     | 28    | 20                       | 1.24  | -2.03                     | 0.49                 | T.                        | 9                        | 11    | 7          | 10                           | s.        |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 41                      | 40.2                         | +6.1                      | 58      | 1     | 19     | 28    | 22                       | 1.18  | -2.11                     | 0.40                 | T.                        | 10                       | 10    | 6          | 12                           | s.        |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 18                      | 37.2                         | +6.8                      | 60      | 22    | 14     | 28    | 22                       | 1.41  | -2.50                     | 0.53                 | T.                        | 6                        | 7     | 11         | 10                           | s.        |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 27                      | 36.8                         | +6.2                      | 60      | 22    | 14     | 28    | 23                       | 1.66  | -1.88                     | 0.82                 | 0.2                       | 8                        | 10    | 7          | 11                           | w.        |                                                                                                                          |
| Means and extremes.....                     |                 |                 |                         | 38.4                         | +6.4                      | 60      | 22    | 13     | 28    | 31                       | 1.40  | -2.10                     | 0.82                 | T.                        | 8                        | 11    | 8          | 9                            | s.        |                                                                                                                          |
| For the State.....                          |                 |                 |                         | 37.3                         | +7.5                      | 72      | 22    | -1     | 3     | 40                       | 2.23  | -1.38                     | 1.95                 | 0.7                       | 7                        | 12    | 6          | 10                           | sw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



## Daily Precipitation for February, 1925

| Stations                            | Drainage Basin  | Day of month |     |     |    |     |     |   |   |     |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |    |    |    | Total |      |
|-------------------------------------|-----------------|--------------|-----|-----|----|-----|-----|---|---|-----|------|------|------|-----|-----|-----|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|----|----|----|-------|------|
|                                     |                 | 1            | 2   | 3   | 4  | 5   | 6   | 7 | 8 | 9   | 10   | 11   | 12   | 13  | 14  | 15  | 16  | 17  | 18 | 19 | 20 | 21 | 22 | 23  | 24  | 25  | 26  | 27  | 28  | 29 | 30 | 31 |       |      |
| The Highlands and Kittatimny Valley |                 |              |     |     |    |     |     |   |   |     |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |    |    |    |       |      |
| Belvidere.....                      | Delaware.....   |              |     |     |    |     | .01 |   |   |     | .50  | 1.04 | .12  |     | .71 |     | .02 |     |    |    |    |    |    | .20 |     |     | .70 |     |     |    |    |    | 3.30  |      |
| Charlotteburg.....                  | Passaic.....    |              |     |     |    |     |     |   |   |     | * *  | * *  | 2.45 |     | .68 |     |     |     |    |    |    |    |    |     |     | .84 |     |     |     |    |    |    | 3.97  |      |
| Culvers Lake.....                   | Delaware.....   |              | .10 | T.  |    |     |     |   |   |     | .41  | .18  | .30  |     | .60 |     | T.  |     |    |    |    |    |    | .07 |     | .45 |     |     |     |    |    |    | 2.11  |      |
| Dover.....                          | Passaic.....    |              | .13 |     |    |     |     |   |   |     | 1.95 | .76  | .27  |     | .67 |     | .04 |     |    |    |    |    |    | .02 |     | .80 |     |     |     |    |    |    | 4.64  |      |
| Layton.....                         | Delaware.....   |              | .02 |     |    |     |     |   |   |     | .72  | .23  | .36  |     | .65 |     |     |     |    |    |    |    |    | .06 |     | .52 |     |     |     |    |    |    | 2.56  |      |
| Newton.....                         | Delaware.....   |              |     |     |    |     |     |   |   |     | .57  | .78  | .05  |     | .48 |     | T.  |     |    |    |    |    |    | .20 |     | T.  | .25 |     |     |    |    |    | 2.52  |      |
| Phillipsburg.....                   | do.....         |              | .19 |     |    |     |     |   |   |     | .62  | .85  | .43  |     | .65 |     | .03 |     |    |    |    |    |    | .05 |     | .69 |     |     |     |    |    |    | 3.32  |      |
| The Red Sandstone Plain.            |                 |              |     |     |    |     |     |   |   |     |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |    |    |    |       |      |
| Bergen Point**.....                 | Coast.....      |              | .10 |     |    |     |     |   |   |     | T.   | .47  | .40  |     | .34 | .28 |     |     |    |    |    |    |    | .04 |     | .52 |     |     |     |    |    |    | 2.15  |      |
| Boonton   .....                     | Passaic.....    |              | .12 |     |    |     |     |   |   |     | .40  | .33  | .58  | .23 |     | .57 |     | T.  |    |    |    |    |    | T.  |     | .64 | .05 |     |     |    |    |    | 2.92  |      |
| Chatham   .....                     | do.....         |              | .17 |     |    |     |     |   |   |     | .51  | .86  | 1.03 | .32 |     | .61 |     |     |    |    |    |    |    | .02 |     | .58 |     |     |     |    |    |    | 4.10  |      |
| Elizabeth.....                      | Coast.....      |              | .05 | .17 |    |     |     |   |   |     | .43  | *    | .85  |     | *   | .37 |     |     |    |    |    |    |    | T.  | T.  |     | .64 |     |     |    |    |    | 2.34  |      |
| Flemington.....                     | Raritan.....    |              | .03 |     |    |     |     |   |   |     | .50  | .48  | .18  |     | .55 |     | T.  |     |    |    |    |    |    | .02 |     | .65 |     |     |     |    |    |    | 2.41  |      |
| Highwood.....                       | Hackensack..... |              | .11 |     |    |     |     |   |   |     | .29  | .76  | .50  |     | .43 |     | T.  |     |    |    |    |    |    | .01 |     | .71 |     |     |     |    |    |    | 2.81  |      |
| Jersey City.....                    | Coast.....      |              | .08 |     | T. |     |     |   |   |     | .25  | .38  | .43  |     | .29 |     | T.  |     |    |    |    |    |    | .03 |     | T.  | .58 |     |     |    |    |    | 2.04  |      |
| Lambertville.....                   | Delaware.....   |              | .04 | .04 |    |     | .01 |   |   |     | .37  | .80  | .12  |     | .25 |     | .02 |     |    |    |    |    |    |     | .06 |     | .50 |     |     |    |    |    | 2.21  |      |
| Little Falls.    .....              | Passaic.....    |              | .18 |     |    |     |     |   |   |     | .45  | .09  | 1.02 | .26 | T.  | .54 |     |     |    |    |    |    |    |     | T.  | .59 | .08 |     |     |    |    |    | 3.21  |      |
| New Brunswick.....                  | Raritan.....    |              | T.  | .05 |    |     | T.  |   |   |     | .66  | .34  | .37  |     | .26 |     | T.  |     |    |    |    |    |    |     | .03 |     | .50 |     |     |    |    |    | 2.21  |      |
| New Milford.**.....                 | Hackensack..... |              | .15 |     |    |     |     |   |   |     | .52  | .44  | .32  |     | .38 |     |     |     |    |    |    |    |    |     |     | .77 |     |     |     |    |    |    | 2.58  |      |
| Paterson.....                       | Passaic.....    |              | .15 |     |    |     |     |   |   |     | .27  | .82  | .35  |     | .50 |     | T.  |     |    |    |    |    |    | T.  |     |     | .68 |     |     |    |    |    | 2.77  |      |
| Plainfield.....                     | Raritan.....    |              | .06 |     |    |     |     |   |   |     | .48  | .57  | .32  |     | .38 |     | T.  |     |    |    |    |    |    |     | .02 | T.  | .38 |     |     |    |    |    | 2.21  |      |
| Somerville.....                     | Raritan.....    |              |     | .25 |    |     |     |   |   |     | .42  | .42  | .38  |     | .34 |     | T.  |     |    |    |    |    |    |     |     | .47 |     |     |     |    |    |    | 2.28  |      |
| South Orange.....                   | Rahway.....     |              | .05 |     |    |     |     |   |   |     | .13  | .26  | .40  |     | .28 |     | T.  |     |    |    |    |    |    | T.  |     | T.  | .34 |     |     |    |    |    | 1.46  |      |
| Woodcliff Lake***.....              | Hackensack..... |              |     | .18 |    |     |     |   |   |     | .36  | .53  | .24  |     | .52 |     | .03 |     |    |    |    |    |    |     |     | .78 |     |     |     |    |    |    | 2.64  |      |
| New York, N. Y.....                 | Coast.....      |              | .07 |     | T. |     |     |   |   |     | .26  | .36  | .40  |     | T.  | .25 |     | T.  |    |    |    |    |    |     | .04 |     | .01 | .53 |     |    |    |    | 1.92  |      |
| The Southern Interior.              |                 |              |     |     |    |     |     |   |   |     |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |    |    |    |       |      |
| Belleplain.....                     | Tuckahoe.....   |              |     | .02 |    |     | T.  |   |   |     | *    | .12  | .60  |     | .07 |     | .03 |     |    |    |    |    |    | .05 |     | .26 | .03 | .24 |     |    |    |    | 1.42  |      |
| Bridgeton.....                      | Coast.....      |              | .10 |     |    |     |     |   |   |     | .47  | .37  | .25  |     | .10 |     |     |     |    |    |    |    | T. |     | .08 |     | .30 |     |     |    |    |    | 1.67  |      |
| Burlington.....                     | Delaware.....   |              | .12 |     |    |     |     |   |   |     | .45  | .63  | .30  |     | .15 |     |     |     |    |    |    |    |    |     | .12 |     | .46 |     |     |    |    |    | 2.23  |      |
| Clayton.....                        | Delaware.....   |              |     |     |    |     |     |   |   |     | .32  | .71  | 1.30 |     | T.  | .20 |     | .03 |    |    |    |    |    | T.  |     |     |     |     |     |    |    |    | \$    |      |
| Hammonton.....                      | Mullica.....    |              |     |     |    |     |     |   |   |     |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |    |    |    |       |      |
| Hightstown.....                     | Raritan.....    |              |     |     |    |     |     |   |   |     |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |    |    |    |       |      |
| Imlaystown.....                     | Delaware.....   |              | .02 | .07 |    |     | .03 |   |   | .02 | .36  | .20  | .21  |     | .13 |     |     |     |    |    |    |    |    |     | .01 | .08 |     | .45 |     |    |    |    |       | 1.58 |
| Indian Mills.....                   | Mullica.....    |              |     | .18 |    |     |     |   |   |     | .34  | .88  | .26  |     | .05 |     | T.  |     |    |    |    |    |    |     | T.  | .09 |     | .58 |     |    |    |    |       | 2.38 |
| Lakewood.....                       | Metedeconk..... |              | T.  |     |    |     | T.  |   |   |     | .13  | .52  | .28  |     | .06 |     | T.  |     |    |    |    |    |    |     | .02 | .10 | T.  | .24 |     |    |    |    |       | 1.35 |
| Moorestown.....                     | Delaware.....   |              | T.  |     |    |     | T.  |   |   |     | .42  | .37  | .08  |     | .08 |     |     |     |    |    |    |    |    |     | .10 |     | .40 |     |     |    |    |    | 1.45  |      |
| Northfield.....                     | Coast.....      |              | T.  | .06 |    |     |     |   |   |     | .03  | .43  | .12  |     | .08 |     |     |     |    |    |    |    |    | .01 |     | .40 |     | .11 |     |    |    |    | 1.29  |      |
| Pleasantville   .....               | Coast.....      |              |     | .09 |    | T.  |     |   |   |     | .03  | .08  | .41  |     | .03 | .06 | T.  | T.  |    |    |    |    |    | .05 |     | .37 |     | .14 | T.  |    |    |    | 1.26  |      |
| Runyon.....                         | Coast.....      |              | .12 |     |    |     |     |   |   |     | .36  | .20  | .50  |     | .22 |     |     |     |    |    |    |    |    |     |     | .50 |     |     |     |    |    |    | 2.02  |      |
| Trenton***.....                     | Delaware.....   |              | .08 | T.  |    | T.  |     |   |   |     | .67  | .36  | .23  |     | .17 |     | T.  |     |    |    |    |    |    |     | .09 |     | T.  | .41 |     |    |    |    | 2.01  |      |
| Tuckerton.....                      | Coast.....      |              |     | .07 |    |     |     |   |   |     | .47  | .26  |      |     | .04 | .08 |     |     |    |    |    |    |    | .03 | .02 | .16 |     | .20 |     |    |    |    | 1.33  |      |
| Vineland.....                       | Maurice.....    |              | *   |     |    |     |     |   |   |     | *    | .90  | .31  |     | .10 |     |     |     |    |    |    |    |    |     |     | .37 |     |     |     |    |    |    | 1.78  |      |
| Phila., Pa***.....                  | Delaware.....   |              | .06 | T.  |    |     |     |   |   |     | .47  | .52  | .12  |     | T.  | .09 |     | T.  |    |    |    |    |    |     | .07 |     | .33 |     |     |    |    |    | 1.66  |      |
| The Sea Coast.                      |                 |              |     |     |    |     |     |   |   |     |      |      |      |     |     |     |     |     |    |    |    |    |    |     |     |     |     |     |     |    |    |    |       |      |
| Asbury Park.....                    | Coast.....      |              | .07 |     |    |     |     |   |   |     | .02  | *    | .72  |     | .03 | .41 |     | T.  |    |    |    |    |    |     | .10 |     | .17 |     |     |    |    |    | 1.52  |      |
| Atlantic City***.....               | do.....         |              | .07 |     |    | .01 |     |   |   |     | .04  | .32  | .10  |     | .07 |     | T.  |     |    |    |    |    |    | T.  | .01 | .49 |     | T.  | .13 |    |    |    | 1.24  |      |
| Cape May City.....                  | do.....         |              |     | .02 |    |     |     |   |   |     | .18  | .38  | .09  |     | .06 | .01 | T.  |     |    |    |    |    |    |     | .02 | .23 | .04 |     | .15 |    |    |    | 1.18  |      |
| Long Branch**.....                  | do.....         |              |     | T.  |    |     |     |   |   |     | .10  | .53  | .34  |     | .03 |     | T.  |     |    |    |    |    |    |     | T.  | .11 |     | T.  | .30 |    |    |    | 1.41  |      |
| Sandy Hook***.....                  | do.....         |              | .04 |     |    |     |     |   |   | .01 | .23  | .51  | .36  |     | .12 |     | T.  |     |    |    |    |    |    |     |     | .06 |     | T.  | .33 |    |    |    | 1.66  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture |                                         | Sun-<br>shine                          |                                    |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------|-----------------------------------------|----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |          | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date     |                                         |                                        |                                    |
|                       |              |         |      |        |      |                 |                |           |          |                                         |                                        |                                    |
| Atlantic City.....    | 30.06        | 30.49   | 28   | 29.32  | 26   | 18.1            | 56             | w.        | 26       | 82                                      | 79                                     | 57                                 |
| Cape May City.....    | 30.11        | 30.51   | 28   | 29.44  | 26   | 8.5             | 44             | nw.       | 26       | 86                                      | 83                                     | .....                              |
| Long Branch.....      | 30.06        | 30.46   | 28   | 29.24  | 26   | 17.1            | 60             | w.        | 26       | 77                                      | 66                                     | 56                                 |
| New York, N. Y.....   | 30.07        | 30.50   | 28   | 29.30  | 26   | 8.5             | 33             | nw.       | 26       | 75                                      | 64                                     | 57                                 |
| Philadelphia, Pa..... | 30.05        | 30.47   | 28   | 29.21  | 26   | 14.2            | 60             | w.        | 26       | 81                                      | 73                                     | 60                                 |
| Sandy Hook.....       | 30.06        | 30.49   | 28   | 29.29  | 26   | 10.0            | 54             | nw        | 26       | 77                                      | 70                                     | 60                                 |
| Trenton.....          |              |         |      |        |      |                 |                |           |          |                                         |                                        |                                    |



## Daily Temperatures for February, 1925

| Stations                             | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31                | Mean              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Belvidere.....                       | Maximum | 51    | 37    | 31    | 34    | 38    | 51    | 51    | 53    | 50    | 41    | 50    | 48    | 35    | 44    | 37    | 47    | 42    | 37    | 44    | 53    | 42    | 63    | 52    | 52    | 44    | 38    | 25    | 34    | ..... | .....             | 43.7              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 27    | 26    | 5     | 15    | 3     | 32    | 18    | 23    | 25    | 35    | 37    | 29    | 21    | 17    | 28    | 19    | 29    | 16    | 14    | 23    | 22    | 29    | 29    | 35    | 30    | 24    | 13    | 9     | ..... | .....             | 22.6              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Charlotteburg.....                   | Maximum | 45    | 40    | 33    | 31    | 44    | 49    | 54    | 63    | 59    | 49    | 48    | 44    | 38    | 38    | 38    | 46    | 44    | 40    | 42    | 50    | 49    | 59    | 48    | 42    | 44    | 39    | 28    | 23    | ..... | .....             | 42.8              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 26    | 24    | 6     | 16    | 16    | 32    | 20    | 25    | 22    | 40    | 39    | 26    | 20    | 20    | 30    | 23    | 27    | 16    | 8     | 21    | 18    | 37    | 34    | 35    | 27    | 26    | 11    | 6     | ..... | .....             | 23.2              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dover.....                           | Maximum | 46    | 36    | 28    | 32    | 43    | 48    | 56    | 60    | 50    | 45    | 50    | 45    | 35    | 41    | 40    | 47    | 43    | 34    | 41    | 51    | 51    | 62    | 56    | 50    | 43    | 39    | ..... | ..... | ..... | .....             | 45.1 <sup>b</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 31    | 20    | 8     | 17    | 14    | 40    | 25    | 28    | 28    | 36    | 45    | 26    | 21    | 22    | 29    | 25    | 27    | 17    | 14    | 25    | 23    | 36    | 35    | 39    | 32    | 20    | 13    | 8     | ..... | .....             | 25.1              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Layton.....                          | Maximum | 45    | 36    | 32    | 35    | 40    | 51    | 56    | 58    | 53    | 47    | 50    | 52    | 32    | 42    | 37    | 47    | 40    | 33    | 39    | 50    | 48    | 61    | 53    | 48    | 52    | 43    | 24    | 28    | ..... | .....             | 44.0              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 30    | 25    | 0     | 2     | 4     | 32    | 19    | 24    | 22    | 35    | 35    | 27    | 18    | 12    | 14    | 19    | 28    | 13    | 12    | 21    | 21    | 30    | 36    | 28    | 34    | 24    | 12    | 7     | ..... | .....             | 20.9              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newton.....                          | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phillipsburg.....                    | Maximum | ..... | 39    | 25    | ..... | 40    | 45    | ..... | 58    | 41    | 49    | 46    | ..... | 35    | 40    | 37    | 44    | 40    | 34    | 42    | 49    | 49    | 60    | 55    | 49    | 44    | 41    | 25    | 30    | ..... | .....             | 42.4 <sup>d</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 27    | 24    | 9     | 17    | 11    | 30    | 22    | 27    | 27    | 37    | 38    | 29    | 25    | 22    | 30    | 26    | 30    | 21    | 22    | 28    | 27    | 33    | 39    | 39    | 34    | 22    | 16    | 12    | ..... | .....             | 25.9              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sussex.....                          | Maximum | 44    | ..... | 37    | 33    | 42    | 51    | 52    | 59    | 58    | 44    | 51    | 50    | 34    | 42    | 35    | 47    | ..... | 35    | 42    | 53    | 50    | 56    | 51    | 51    | 44    | 41    | 27    | 30    | ..... | .....             | 44.6 <sup>b</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 31    | ..... | 4     | 12    | 10    | 34    | 27    | 26    | 24    | 34    | 36    | 28    | 20    | 20    | 26    | 22    | ..... | 16    | 14    | 22    | 21    | 31    | 36    | 32    | 29    | 25    | 12    | 8     | ..... | .....             | 23.1 <sup>b</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The Red Sandstone Plain.             |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bergen Point.....                    | Maximum | 41    | 42    | 37    | 33    | 42    | 47    | 52    | 48    | 46    | 52    | 53    | 50    | 40    | 43    | 47    | 47    | 43    | 38    | 43    | 54    | 51    | 62    | 60    | 58    | 46    | 43    | 27    | 28    | ..... | .....             | 45.5              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 34    | 33    | 22    | 22    | 22    | 32    | 32    | 28    | 30    | 37    | 45    | 30    | 26    | 27    | 33    | 31    | 35    | 23    | 24    | 31    | 31    | 40    | 38    | 43    | 36    | 26    | 15    | 13    | ..... | .....             | 30.0              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Boonton§§.....                       | Maximum | 47    | 38    | 30    | 33    | 42    | 50    | 50    | 57    | 45    | 43    | 50    | 39    | 37    | 40    | 41    | 46    | 42    | 35    | 42    | 51    | ..... | 63    | 52    | 49    | 41    | 43    | 34    | 31    | ..... | .....             | 43.4 <sup>a</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 21    | 30    | 9     | 11    | 11    | 12    | 20    | 23    | 23    | 24    | 36    | 37    | 22    | 15    | 23    | 24    | 28    | 19    | 12    | 16    | 21    | 25    | 34    | 35    | 30    | 34    | 13    | 9     | ..... | .....             | 22.0              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Elizabeth.....                       | Maximum | 45    | 40    | 37    | 33    | 40    | 50    | 50    | 48    | 46    | 52    | 51    | 51    | 39    | 44    | 41    | 47    | 44    | 40    | 44    | 53    | 54    | 64    | 56    | 59    | 46    | 43    | 29    | 31    | ..... | .....             | 45.6              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 32    | 32    | 13    | 23    | 17    | 28    | 26    | 30    | 30    | 37    | 40    | 31    | 24    | 24    | 32    | 29    | 33    | 21    | 20    | 28    | 28    | 35    | 38    | 46    | 36    | 29    | 17    | 10    | ..... | .....             | 28.2              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flemington.....                      | Maximum | 44    | 41    | 36    | 34    | 43    | 50    | 52    | 55    | 48    | 43    | 46    | 45    | 35    | 45    | 38    | 45    | 40    | 40    | 46    | 55    | 47    | 63    | 60    | 52    | 45    | 41    | 30    | 33    | ..... | .....             | 44.7              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 29    | 32    | 9     | 20    | 11    | 30    | 20    | 25    | 26    | 35    | 37    | 30    | 22    | 20    | 32    | 29    | 33    | 19    | 22    | 25    | 22    | 30    | 36    | 37    | 35    | 30    | 16    | 11    | ..... | .....             | 24.9              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Highwood.....                        | Maximum | 45    | 37    | 36    | 32    | 39    | 46    | 48    | 50    | 42    | 48    | 52    | 51    | 37    | 42    | 39    | 45    | 39    | 36    | 41    | 50    | 51    | 63    | 56    | 53    | 44    | 43    | 26    | 30    | ..... | .....             | 43.6              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 32    | 31    | 12    | 21    | 13    | 27    | 28    | 28    | 26    | 35    | 42    | 30    | 22    | 22    | 30    | 26    | 31    | 25    | 20    | 26    | 26    | 32    | 37    | 34    | 33    | 25    | 16    | 11    | ..... | .....             | 26.5              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jersey City.....                     | Maximum | 47    | 44    | 34    | 34    | 42    | 48    | 51    | 57    | 51    | 54    | 52    | 50    | 36    | 41    | 46    | 49    | 43    | 35    | 44    | 51    | 51    | 63    | 61    | 54    | 44    | 43    | 26    | 30    | ..... | .....             | 45.8              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 34    | 34    | 13    | 22    | 23    | 35    | 35    | 40    | 38    | 42    | 44    | 29    | 24    | 28    | 36    | 34    | 30    | 23    | 29    | 34    | 36    | 42    | 38    | 41    | 36    | 26    | 16    | 12    | ..... | .....             | 31.2              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lambertville.....                    | Maximum | 44    | 41    | 35    | 29    | 40    | 43    | 45    | 52    | 47    | 52    | 50    | 48    | 35    | 40    | 40    | 44    | 41    | 37    | 42    | 48    | 54    | 60    | 62    | 56    | 44    | 43    | 24    | 28    | ..... | .....             | 43.7              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 33    | 32    | 9     | 20    | 16    | 33    | 28    | 33    | 35    | 40    | 43    | 29    | 23    | 26    | 32    | 29    | 33    | 19    | 22    | 28    | 30    | 38    | 38    | 41    | 34    | 22    | 15    | 10    | ..... | .....             | 28.2              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Little Falls§§.....                  | Maximum | 42    | 37    | 30    | 35    | 43    | 50    | 55    | 47    | 37    | 47    | 55    | 38    | 37    | 37    | 40    | 47    | 42    | 32    | 40    | 53    | 59    | 65    | 47    | 47    | 40    | 42    | 25    | ..... | ..... | 43.7 <sup>a</sup> |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 28    | 30    | 10    | 15    | 12    | 21    | 22    | 26    | 27    | 29    | 35    | 36    | 23    | 26    | 28    | 25    | 30    | 19    | 15    | 23    | 23    | 30    | 36    | 34    | 33    | 35    | 15    | 11    | ..... | .....             | 24.9              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Brunswick.....                   | Maximum | 44    | 40    | 36    | 34    | 41    | 48    | 51    | 60    | 47    | 58    | 56    | 51    | 37    | 44    | 42    | 46    | 44    | 41    | 46    | 51    | 58    | 64    | 66    | 62    | 46    | 45    | 30    | 29    | ..... | .....             | 47.0              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 32    | 33    | 12    | 22    | 15    | 30    | 28    | 29    | 28    | 34    | 44    | 30    | 24    | 26    | 32    | 30    | 32    | 22    | 20    | 28    | 27    | 33    | 39    | 41    | 34    | 30    | 16    | 12    | ..... | .....             | 28.0              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paterson.....                        | Maximum | 48    | 44    | 36    | 35    | 44    | 48    | 46    | 55    | 47    | 47    | 50    | 49    | 38    | 45    | 40    | 48    | 41    | 40    | 43    | 53    | 52    | 65    | 52    | 54    | 46    | 41    | 28    | 33    | ..... | .....             | 45.3              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 34    | 32    | 13    | 23    | 20    | 28    | 30    | 30    | 38    | 40    | 31    | 25    | 25    | 31    | 28    | 34    | 23    | 22    | 31    | 28    | 33    | 39    | 41    | 36    | 28    | 14    | 12    | ..... | ..... | 28.5              |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plainfield.....                      | Maximum | 48    | 40    | 36    | 35    | 42    | 49    | 51    | 58    | 48    | 51    | 50    | 38    | 41    | 42    | 52    | 41    | 35    | 46    | 52    | 55    | 65    | 64    | 53    | 42    | 43    | 26    | 30    | ..... | ..... | 45.8              |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 27    | 29    | 11    | 21    | 11    | 28    | 22    | 26    | 26    | 34    | 36    | 29    | 23    | 23    | 28    | 24    | 30    | 20    | 16    | 25    | 24    | 30    | 37    | 41    | 34    | 25    | 16    | 10    | ..... | .....             | 25.2              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Somerville.....                      | Maximum | 45    | 42    | 38    | 35    | 42    | 50    | 52    | 52    | 50    | 45    | 50    | 47    | 39    | 44    | 40    | 48    | 39    | 39    | 47    | 52    | 55    | 66    | 60    | 57    | 45    | 47    | 28    | 32    | ..... | .....             | 45.9              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 26    | 31    | 12    | 22    | 10    | 27    | 19    | 24    | 27    | 34    | 37    | 31    | 23    | 20    | 29    | 24    | 29    | 18    | 16    | 26    | 23    | 30    | 38    | 39    | 34    | 26    | 17    | 12    | ..... | .....             | 25.1              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| South Orange.....                    | Maximum | 46    | 39    | 26    | 32    | 40    | 46    | 48    | 53    | 47    | 52    | 51    | 48    | 37    | 40    | 42    | 45    | 42    | 33    | 40    | 49    | 50    | 61    | 56    | 53    | 42    | 43    | 23    | 29    | ..... | .....             | 43.3              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 32    | 22    | 12    | 22    | 22    | 31    | 28    | 32    | 33    | 37    | 41    | 28    | 24    | 26    | 33    | 29    | 25    | 21    | 22    | 30    | 30    | 38    | 38    | 40    | 36    | 21    | 14    | 11    | ..... | .....             | 27.8              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New York, N. Y.....                  | Maximum | 47    | 44    | 29    | 33    | 42    | 47    | 52    | 58    | 52    | 56    | 54    | 50    | 37    | 41    | 47    | 48    | 45    | 35    | 44    | 51    | 50    | 63    | 60    | 54    | 44    | 43    | 25    | 29    | ..... | .....             | 45.7              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 35    | 26    | 13    | 22    | 24    | 37    | 35    | 42    | 39    | 43    | 47    | 29    | 25    | 28    | 37    | 35    | 29    | 23    | 30    | 34    | 37    | 43    | 38    | 41    | 36    | 22    | 15    | 12    | ..... | .....             | 31.3              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The Southern Interior.               |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Belleplain.....                      | Maximum | 55    | 46    | 39    | 43    | 54    | 61    | 68    | 69    | 66    | 56    | ..... | 41    | 46    | 63    | 56    | 55    | ..... | 51    | 57    | 59    | 68    | 63    | 66    | 52    | 47    | 32    | 34    | ..... | ..... | 53.9 <sup>c</sup> |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 36    | 19    | 22    | 16    | 27    | 23    | 28    | 32    | 49    | 50    | 30    | 22    | 25    | 35    | 31    | 33    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXX.

MARCH, 1925.

No. 3

### GENERAL SUMMARY.

March, usually a stormy month or with successively unpleasant weather changes, was remarkable for its persistently fine weather and relatively mild temperature. No temperature records were broken, but there were only four days when temperatures were appreciably below normal. The coldest period was on the 2d and 3d, when minima were mostly under 10°, and at this time 12 inch ice was cut in Hunterdon County. Half of the days of the month were mostly clear, and the usual blustery March winds were appreciably missing. There was a deficiency in the frequency of rain, the important dates of its occurrence being on the 1st, 5th, 17th, 27th, 28th, 30th, and in northern districts on the 12th and 14th, and with scattered occurrences on the 19th. The absence of snow was another unusual feature for the month, and the scant amounts which did fall in northern counties were unimportant. The abnormal warmth which commenced the second week in February continued through March, with only slight retrogressions for a day or two at a time. As a result of such favorable early spring weather, outdoor work, both structural and agricultural, was advanced some two weeks beyond normal, and several weeks in advance of last year.

Storm warnings were displayed along the coast on the 5th, 10th, 14th, 17th, 19th, 27th, 28th, and 31st.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 36 stations, was 43.3°, which was 4.5° above normal. The highest temperature was 80° at Indian Mills on the 27th, and the lowest, 1°, at Culvers Lake on the 3d. The greatest daily range of temperature was 52° at Sussex on the 26th. The highest monthly mean temperature was 47.1° at Vineland, and the lowest, 39.0° at Charlotteburg.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +2.7°; Red Sandstone Plain, +2.4°; Southern Interior, +4.0°; Sea Coast, +3.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 40 stations, was 3.47 inches, which was 0.49 inch below normal. The average total snowfall at 18 selected stations was 0.3 inch, which was 5.7 inches below normal. The greatest monthly precipitation was 6.09 inches, at Little Falls, and the least, 1.50 inches at Northfield. The greatest amount of precipitation in any 24 consecutive hours was 2.06 inches at Little Falls on the 1st. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 2 less than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, +0.91 inch; Red Sandstone Plain, -0.16 inch; Southern Interior, -2.30 inches; Sea Coast, -3.40 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 14 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 conse-

cutive minutes, was 60 miles per hour from the southeast at Atlantic City on the 1st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 16, which was 4 more than normal; partly cloudy, 6, or 3 less than normal; cloudy, 9, or 1 less than normal. The per cent of possible sunshine was 62, which was 1 per cent above normal.

### OBITUARY.

Henry A. Jorden died March 10, 1925, at Bridgeton. He commenced observations in Bridgeton in June, 1882, and has been cooperating in this work uninterruptedly until his death, a period of nearly 43 years. Such is the public spirited fidelity of a busy man to his community and to his country. It is worthy of lasting praise and of loyal emulation.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 5.0 feet, and the highest 6.0 feet on the 20th and 21st. At Trenton the mean daily stage was 3.1 feet, which was 1.0 foot below the normal; the highest stage was 4.0 feet on the 1st and 21st.

The mean atmospheric pressure, reduced to sea level, was 30.08 inches, which was 0.07 inch above normal. The highest reading was 30.65 inches at Trenton and Sandy Hook on the 16th, and the lowest, 29.35 inches at Sandy Hook on the 28th.

Dense fog was reported on the 1st, 8th, 10th, 11th, 14th, 17th, 19th, and 27th. Sleet occurred in portions of northern and central districts on the 1st, 5th, and 13th. Thunderstorms were recorded on the 12th, 14th, 18th, 19th, and 27th. Solar halos occurred on the 10th, 22d, 24th, and 26th and lunar halos on the 7th, 8th, and 9th. No hail was reported.

### COMPARATIVE DATA FOR MARCH

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 30.4        | 66      | 2      | 1.10          | 2.29     | 0.23  | .....      | .....         | .....  | .....                  |
| 1886..... | 37.7        | 70      | 9      | 3.70          | 5.27     | 2.59  | .....      | .....         | .....  | .....                  |
| 1887..... | 37.7        | 61      | 8      | 3.34          | 5.45     | 2.19  | .....      | .....         | 13     | 10                     |
| 1888..... | 32.8        | 72      | 0      | 5.71          | 8.22     | 3.75  | .....      | .....         | 12     | 11                     |
| 1889..... | 40.5        | 67      | 19     | 3.79          | 6.49     | 1.98  | .....      | .....         | 13     | 8                      |
| 1890..... | 37.6        | 78      | 0      | 6.08          | 7.92     | 4.14  | .....      | .....         | 13     | 14                     |
| 1891..... | 37.2        | 68      | 4      | 5.06          | 8.02     | 2.05  | 8          | 10            | 13     | 12                     |
| 1892..... | 34.4        | 64      | 6      | 4.75          | 7.21     | 3.11  | 10         | 12            | 9      | 9                      |
| 1893..... | 37.0        | 68      | 6      | 3.73          | 6.26     | 2.36  | 10         | 10            | 11     | 10                     |
| 1894..... | 44.2        | 83      | 12     | 1.77          | 2.65     | 1.09  | 12         | 11            | 8      | 10                     |
| 1895..... | 36.7        | 72      | 7      | 3.16          | 4.66     | 1.77  | 12         | 8             | 11     | 10                     |
| 1896..... | 34.0        | 69      | -8     | 5.34          | 7.38     | 3.14  | 13         | 8             | 10     | 11                     |
| 1897..... | 40.0        | 77      | 18     | 2.78          | 4.32     | 1.55  | 11         | 9             | 11     | 10                     |
| 1898..... | 45.1        | 77      | 16     | 3.33          | 4.25     | 2.56  | 9          | 10            | 12     | 12                     |
| 1899..... | 38.6        | 73      | 13     | 6.54          | 9.58     | 3.45  | 7          | 10            | 14     | 13                     |
| 1900..... | 35.6        | 67      | -9     | 3.51          | 4.96     | 2.48  | 12         | 12            | 7      | 10                     |
| 1901..... | 39.2        | 75      | -8     | 4.64          | 8.07     | 2.40  | 9          | 10            | 12     | 12                     |
| 1902..... | 43.9        | 77      | 0      | 4.34          | 7.20     | 3.16  | 12         | 10            | 9      | 11                     |
| 1903..... | 47.6        | 79      | 13     | 5.13          | 8.53     | 3.60  | 11         | 8             | 12     | 10                     |
| 1904..... | 37.2        | 72      | 1      | 3.43          | 4.76     | 2.02  | 11         | 8             | 12     | 13                     |
| 1905..... | 39.8        | 87      | -7     | 3.95          | 5.06     | 2.80  | 14         | 8             | 9      | 12                     |
| 1906..... | 34.4        | 62      | -15    | 5.09          | 6.77     | 2.91  | 10         | 9             | 12     | 11                     |
| 1907..... | 41.2        | 88      | -11    | 3.04          | 4.38     | 1.81  | 13         | 10            | 8      | 10                     |
| 1908..... | 41.8        | 89      | 7      | 2.80          | 4.92     | 1.06  | 11         | 9             | 11     | 12                     |
| 1909..... | 38.3        | 74      | -6     | 3.48          | 4.66     | 2.31  | 12         | 10            | 9      | 13                     |
| 1910..... | 44.5        | 88      | 10     | 1.22          | 2.36     | 0.29  | 14         | 10            | 7      | 6                      |
| 1911..... | 37.6        | 76      | 3      | 3.38          | 4.50     | 2.64  | 10         | 12            | 9      | 11                     |
| 1912..... | 36.9        | 72      | 3      | 7.61          | 9.61     | 5.95  | 9          | 11            | 11     | 14                     |
| 1913..... | 44.8        | 79      | 1      | 5.15          | 7.73     | 2.47  | 10         | 9             | 12     | 12                     |
| 1914..... | 35.4        | 75      | -6     | 3.65          | 6.45     | 2.02  | 13         | 10            | 8      | 10                     |
| 1915..... | 36.1        | 63      | 11     | 1.13          | 1.65     | 0.58  | 20         | 7             | 4      | 3                      |
| 1916..... | 31.7        | 71      | -7     | 3.48          | 4.96     | 2.38  | 13         | 8             | 10     | 12                     |
| 1917..... | 38.2        | 72      | 0      | 4.65          | 7.14     | 2.28  | 12         | 8             | 11     | 13                     |
| 1918..... | 41.8        | 82      | 8      | 2.06          | 3.76     | 0.99  | 17         | 7             | 7      | 9                      |
| 1919..... | 43.2        | 77      | 12     | 5.32          | 7.40     | 3.77  | 14         | 7             | 10     | 13                     |
| 1920..... | 39.4        | 79      | -8     | 3.80          | 5.36     | 2.29  | 17         | 5             | 9      | 10                     |
| 1921..... | 49.1        | 92      | 11     | 3.03          | 4.65     | 1.80  | 14         | 10            | 7      | 11                     |
| 1922..... | 41.1        | 82      | 2      | 4.52          | 7.10     | 3.42  | 12         | 6             | 13     | 13                     |
| 1923..... | 38.0        | 81      | -3     | 4.09          | 6.73     | 2.13  | 17         | 6             | 8      | 10                     |
| 1924..... | 38.8        | 76      | 5      | 2.51          | 5.69     | 0.80  | 16         | 6             | 9      | 8                      |
| 1925..... | 43.3        | 80      | 1      | 3.47          | 6.09     | 1.50  | 16         | 6             | 9      | 9                      |



## Climatological Data for March, 1925

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers                                                                                                                |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |                                                                                                                          |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 34                      | 42.2                         | +4.1                      | 75      | 26   | 7      | 3    | 46                       | 3.51  | -0.34                     | 0.85                 | T.                        | 12                           | 18    | 1          | 12                           | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 33                      | 39.0                         | +3.2                      | 73      | 26   | 5      | 1    | 50                       | 4.63  | +0.43                     | 1.24                 | T                         | 10                           | 14    | 3          | 14                           |                                                                                                                          |
| Culvers Lakell.....                  | Sussex.....     | 848             | 24                      |                              |                           |         |      |        |      |                          | 3.78  | +0.31                     | 0.89                 | 4.9                       | 14                           | 15    | 5          | 11                           |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 41                      |                              |                           |         |      |        |      |                          | 4.29  | +0.30                     |                      |                           |                              |       |            |                              |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 24                      | 39.8                         | +4.2                      | 74      | 26   | 5      | 3    | 50                       | 3.72  | +0.35                     | 0.87                 | 0.8                       | 11                           | 16    | 3          | 12                           | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 42                      |                              |                           |         |      |        |      |                          | 3.72  |                           |                      | 4.0                       | 12                           |       |            | s.                           |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 42                      | 42.4                         | +4.3                      | 73      | 26   | 9      | 3    | 38                       | ..... |                           |                      | T                         | 8                            | 20    | 2          | 9                            |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 40.4                         | +4.1                      | 74      | 26   | 7      | 3    | 52                       | 4.20  | +0.61                     | 0.93                 | 3.2                       | 16                           | 18    | 6          | 7                            |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 40.8                         | +4.0                      | 75      | 26   | 1      | 3    | 52                       | 4.02  | +0.28                     | 1.24                 | 3.2                       | 12                           | 17    | 3          | 11                           | nw.                                                                                                                      |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |
| Bergen Pointll.....                  | Hudson.....     | 37              | 28                      | 44.2 <sup>a</sup>            | +4.7                      | 72      | 26   | 10     | 3    | 33                       | 3.30  | -0.70                     | 1.38                 | T.                        | 8                            | 9     | 15         | 7                            | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                         | Morris.....     | 400             | 35                      | 39.4                         | +2.8                      | 71      | 26   | 7      | 3    | 45                       | 4.49  | +0.55                     | 1.43                 | .....                     | 12                           | 19    | 1          | 11                           |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 21                      |                              |                           |         |      |        |      |                          | 5.71  | +1.97                     | 2.03                 | .....                     | 9                            | 20    | 9          | 2                            |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 46                      | 44.2                         | +5.4                      | 74      | 26   | 10     | 3    | 40                       | 3.85  | -0.37                     | 1.40                 | T.                        | 11                           | 15    | 5          | 11                           |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 39                      | 43.8                         | +3.7                      | 74      | 26   | 9      | 3    | 43                       | 4.53  | +0.64                     | 1.56                 | T                         | 12                           | 18    | 1          | 12                           | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwoodll.....                      | Bergen.....     | 90              | 37                      | 42.2                         | +5.2                      | 72      | 26   | 10     | 3    | 42                       | 4.97  | +0.79                     | 1.56                 | T.                        | 9                            | 12    | 7          | 12                           |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 27                      | 44.5                         | +5.3                      | 70      | 19   | 11     | 3    | 28                       | 4.05  | -0.10                     | 1.40                 | T.                        | 10                           | 15    | 6          | 10                           |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 38                      | 43.0                         | +3.6                      | 74      | 27   | 8      | 3    | 33                       | 3.61  | -0.42                     | 1.31                 | 0.5                       | 11                           | 15    | 5          | 11                           |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 22                      | 41.3                         | +3.3                      | 72      | 26   | 9      | 3    | 42                       | 6.09  | +2.50                     | 2.06                 | T.                        | 11                           | 10    | 9          | 12                           | Passaic Consol. Water Co.<br>N. J. Experiment Station.<br>Haekensack Water Co.<br>Marion T. Probert.                     |
| New Brunswick.....                   | Middlesex.....  | 110             | 72                      | 43.8                         | +5.0                      | 76      | 27   | 9      | 3    | 38                       | 3.17  | -0.64                     | 1.25                 | T.                        | 7                            | 14    | 8          | 9                            |                                                                                                                          |
| New Milfordll.....                   | Bergen.....     | 9               | 5                       |                              |                           |         |      |        |      |                          | 4.77  |                           | 1.77                 | .....                     | 10                           |       |            |                              |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 54                      | 44.4                         | +5.6                      | 75      | 26   | 11     | 3    | 38                       | 5.47  | +1.09                     | 1.91                 | 0.5                       | 9                            | 16    | 2          | 13                           |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 37                      | 42.3                         | +3.5                      | 75      | 27   | 9      | 3    | 43                       | 4.10  | -0.17                     | 1.55                 | T.                        | 9                            | 14    | 7          | 10                           | E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Haekensack Water Co.                                           |
| Somerville.....                      | Somerset.....   | 70              | 42                      | 43.5                         | +5.3                      | 77      | 27   | 9      | 3    | 46                       | 4.18  | +0.22                     | 1.46                 | T.                        | 9                            | 21    | 0          | 10                           |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 55                      | 42.3                         | +5.2                      | 70      | 26   | 10     | 3    | 33                       | 2.70  | -1.16                     | 0.78                 | T.                        | 10                           | 16    | 5          | 10                           |                                                                                                                          |
| Woodcliff Lakell.....                | Bergen.....     | 100             | 5                       |                              |                           |         |      |        |      |                          | 4.33  |                           | 1.60                 | .....                     | 10                           |       |            |                              |                                                                                                                          |
| New York, N. Y.....                  |                 | 365             | 55                      | 43.6                         | +5.9                      | 68      | 19   | 10     | 3    | 29                       | 3.25  | -0.85                     | 1.21                 | T.                        | 12                           | 9     | 11         | 11                           | nw.                                                                                                                      |
| Means and extremes...                |                 |                 |                         | 43.6                         | +4.5                      | 77      | 27   | 7      | 3    | 46                       | 4.33  | +0.30                     | 2.06                 | 0.1                       | 10                           | 15    | 6          | 10                           | nw.                                                                                                                      |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |
| Belleplain.....                      | Cape May.....   | 30              | 31                      | 44.5                         | +3.4                      | 74      | 19   | 10     | 3    | 42                       | 1.63  | -2.07                     | 0.80                 | T.                        | 7                            | 13    | 8          | 10                           | Thomas J. Durell.                                                                                                        |
| Bridgeton.....                       | Cumberland..... | 30              | 44                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 59                      | 44.8 <sup>b</sup>            | +4.4                      | 79      | 27   | 8      | 3    | 42                       | 3.95  | +0.24                     | 1.34                 | .....                     | 12                           | 20    | 5          | 6                            |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 29                      | 46.4 <sup>d</sup>            | +4.7                      | 76      | 27   | 10     | 3    | 40                       | 2.80  | -0.78                     | 1.30                 | T.                        | 6                            | 17    | 6          | 8                            |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.<br>James M. Armstrong.                               |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | 43.8                         | +3.4                      | 76      | 27   | 8      | 3    | 40                       |       |                           |                      | T.                        |                              | 11    | 15         | 5                            |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 44.4 <sup>f</sup>            | +5.3                      | 75      | 27   | 9      | 3    | 42                       | 3.05  | -1.03                     | 1.22                 | T.                        |                              |       |            |                              |                                                                                                                          |
| Indian Millsll.....                  | Burlington..... | 76              | 36                      | 44.9                         | +4.4                      | 80      | 27   | 9      | 3    | 45                       | 2.61  | -1.42                     | 1.08                 | T.                        | 7                            | 13    | 7          | 11                           |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54              | 21                      | 43.5                         | +3.9                      | 72      | 27   | 10     | 3    | 39                       | 2.26  | -1.72                     | 1.02                 | T.                        | 9                            | 14    | 8          | 9                            | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                      | Burlington..... | 75              | 62                      | 45.6                         | +6.4                      | 77      | 27   | 9      | 3    | 40                       | 3.44  | -0.32                     | 1.30                 | T.                        | 6                            | 16    | 5          | 10                           |                                                                                                                          |
| Northfieldll.....                    | Atlantic.....   | 25              | 18                      |                              |                           |         |      |        |      |                          | 1.50  | -1.99                     | 0.89                 | T.                        | 5                            |       |            |                              |                                                                                                                          |
| Pleasantvillell.....                 | Atlantic.....   | 26              | 27                      | 42.2                         |                           | 76      | 19   | 10     | 3    | 38                       | 1.76  | -1.71                     | 0.96                 | T                         | 6                            | 17    | 10         | 4                            |                                                                                                                          |
| Runyonll.....                        | Middlesex.....  | 18              |                         | 42.5                         |                           | 76      | 27   | 9      | 3    | 49                       | 3.22  |                           | 1.35                 | T.                        | 7                            | 18    | 6          | 7                            | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                         | Mercer.....     | 190             | 53                      | 45.0                         | +5.9                      | 76      | 27   | 10     | 3    | 32                       | 3.59  | -0.45                     | 1.29                 | T.                        | 9                            | 9     | 10         | 12                           |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 32                      | 43.8 <sup>a</sup>            | +3.8                      | 75      | 19   | 6      | 3    | 42                       | 1.99  | -2.26                     | 1.03                 | T.                        | 7                            | 22    | 3          | 6                            |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 56                      | 47.1                         | +6.6                      | 76      | 27   | 10     | 3    | 37                       | 2.61  | -1.35                     | 1.20                 | T.                        | 6                            | 16    | 8          | 7                            |                                                                                                                          |
| Philadelphia, Pa.....                |                 | 117             | 55                      | 46.3                         | +5.5                      | 74      | 27   | 11     | 3    | 30                       | 3.15  | -0.30                     | 1.46                 | T.                        | 9                            | 13    | 6          | 12                           |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 44.5                         | +4.7                      | 80      | 27   | 6      | 3    | 49                       | 2.65  | -1.24                     | 1.35                 | T.                        | 8                            | 15    | 8          | 8                            |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 36                      | 42.6                         | +3.6                      | 72      | 19   | 10     | 3    | 32                       | 2.51  | -1.72                     | 1.29                 | T.                        | 7                            | 17    | 11         | 3                            | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 51                      | 43.8                         | +5.2                      | 70      | 19   | 11     | 3    | 26                       | 1.56  | -2.17                     | 0.74                 | T.                        | 6                            | 12    | 9          | 10                           |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 41                      | 44.6                         | +3.8                      | 68      | 19   | 15     | 3    | 25                       | 1.67  | -2.06                     | 0.67                 | T.                        | 8                            | 14    | 5          | 12                           |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 18                      | 42.8                         | +4.3                      | 75      | 19   | 12     | 3    | 32                       | 2.42  | -1.92                     | 0.90                 | T.                        | 11                           | 14    | 10         | 7                            |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 27                      | 42.6                         | +5.6                      | 67      | 19   | 12     | 3    | 24                       | 2.97  | -1.27                     | 1.34                 | T.                        | 10                           | 12    | 9          | 10                           |                                                                                                                          |
| Means and extremes...                |                 |                 |                         | 43.3                         | +4.5                      | 75      | 19   | 10     | 3    | 32                       | 2.23  | -1.83                     | 1.34                 | T.                        | 8                            | 14    | 9          | 8                            |                                                                                                                          |
| For the State.....                   |                 |                 |                         | 43.3                         | +4.5                      | 80      | 27   | 1      | 3    | 52                       | 3.47  | -0.49                     | 2.06                 | 0.3                       | 9                            | 16    | 6          | 9                            | nw.                                                                                                                      |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

¶ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, \*, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



Daily Precipitation for March, 1925

| Stations                                   | Drainage Basin  | Day of month |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      | Total |      |
|--------------------------------------------|-----------------|--------------|-----|---|---|-----|-----|-----|---|---|----|-----|-----|-----|-----|-----|----|-----|-----|--------|-----|----|----|----|----|-----|----|-------|------|-----|-----|------|-------|------|
|                                            |                 | 1            | 2   | 3 | 4 | 5   | 6   | 7   | 8 | 9 | 10 | 11  | 12  | 13  | 14  | 15  | 16 | 17  | 18  | 19     | 20  | 21 | 22 | 23 | 24 | 25  | 26 | 27    | 28   | 29  | 30  | 31   |       |      |
| <i>The Highlands and Killatinny Valley</i> |                 |              |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      |       |      |
| Belvidere.....                             | Delaware.....   | .85          |     |   |   | .21 |     |     |   |   |    | .01 | .30 |     | .05 | .06 |    | .54 |     | .71    |     |    |    |    |    |     |    | .18   | .50  | .01 | .09 |      | 3.51  |      |
| Charlotteburg.....                         | Passaic.....    | 1.24         |     |   |   | .12 |     |     |   |   |    |     | .24 |     | .04 |     |    | .54 |     | 1.18   |     |    |    |    |    |     |    | *     | 1.08 |     | .19 |      | 4.61  |      |
| Culvers Lake.....                          | Delaware.....   | .85          | .04 |   |   | .30 |     |     |   |   |    |     |     | .02 | .05 | .01 |    | .53 | .04 | .73    |     |    |    |    |    | .02 |    | .18   | .80  | .01 | .20 |      | 3.78  |      |
| Dover.....                                 | Passaic.....    |              |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      | 4.29  |      |
| Layton.....                                | Delaware.....   | .67          | T.  |   |   | .06 |     |     |   |   |    |     |     | .04 | .06 | .14 |    | .48 | T.  | .87    |     |    |    |    |    | .06 |    | .61   | .58  | T.  | .15 |      | 3.72  |      |
| Newton.....                                | Delaware.....   | .5           |     |   |   | .28 | .04 |     |   |   |    |     | .36 |     | .08 | .03 |    | .49 |     | .80    |     |    |    |    |    |     | T. | .47   | .60  | .04 | .09 | T.   | .8    |      |
| Phillipsburg.....                          | do.....         | .57          |     |   |   | .05 |     |     |   |   |    | .03 | T.  |     | T.  |     |    | .18 | T.  | .13    |     |    |    |    |    | T.  | *  | .38   | T.   | .01 |     |      | 4.20  |      |
| Sussex.....                                | Hudson.....     | .76          | T.  |   |   | .25 | .08 | .01 |   |   |    |     | .40 |     | .06 | .04 |    | .55 | .03 | .76    |     |    |    |    |    | .03 |    | .13   | .93  | .02 | .14 | .01  |       |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      |       |      |
| Bergen Point**.....                        | Coast.....      | 1.38         | T.  |   |   | .06 |     |     |   |   |    | .09 |     |     | T.  |     |    |     | .54 | .46    |     |    |    |    |    | T.  |    | .19   | .37  | T.  | .21 |      | 3.30  |      |
| Boonton   .....                            | Passaic.....    | 1.43         |     |   |   | .07 |     |     |   |   |    | .15 |     | .05 |     |     |    | .01 | .49 | 1.15   | .04 |    |    |    |    |     |    | .86   | .01  | .15 | .08 |      | 4.49  |      |
| Chatham   .....                            | do.....         | 2.03         |     |   |   | .11 |     |     |   |   |    |     |     | .07 | T.  |     |    | .02 | .58 | 1.55   |     |    |    |    |    |     |    | .98   | T.   | .28 | .09 |      | 5.71  |      |
| Elizabeth.....                             | Coast.....      | * 1.40       |     |   |   | T.  | .06 |     |   |   |    | .10 | *   | .08 |     |     |    | *   | .63 | .72    |     |    |    |    |    | T.  | *  | .60   |      | .26 |     | 3.85 |       |      |
| Flemington.....                            | Raritan.....    | 1.56         |     |   |   | .16 | .08 |     |   |   |    | .12 |     | .06 |     |     |    | .51 | .04 | 1.11   |     |    |    |    |    |     |    | .07   | .58  | T.  | .22 | .02  | 4.53  |      |
| Highwood.....                              | Hackensack..... | 1.56         |     |   |   | .13 | T.  |     |   |   |    | .20 | T.  | .07 |     |     |    | .50 |     | 1.24   |     |    |    |    |    | T.  |    | .08   | .82  | T.  | .37 |      | 4.97  |      |
| Jersey City.....                           | Coast.....      | 1.40         | T.  |   |   | .10 |     |     |   |   |    | .13 | .01 | .01 |     |     |    | .58 |     | .50    |     |    |    |    |    | T.  |    | *     | 1.07 | T.  | .25 |      | 4.05  |      |
| Lambertville.....                          | Delaware.....   | 1.31         |     |   |   | .22 | .04 |     |   |   |    | .12 |     | .06 |     |     |    | .45 | .02 | .77    |     |    |    |    |    |     |    | .35   | T.   | .02 | .25 |      | 3.61  |      |
| Little Falls.                              | Passaic.....    | 2.06         |     |   |   | .17 |     |     |   |   |    | T.  | .21 | .08 | T.  |     |    | .02 | .61 | 1.42   | .03 |    |    |    |    |     |    | .15   | T.   | .28 | .06 |      | 6.09  |      |
| New Brunswick.....                         | Raritan.....    | 1.25         | .08 |   |   | T.  |     |     |   |   |    | .06 | T.  |     |     |     |    | .46 |     | .48    |     |    |    |    |    |     |    |       | .65  | T.  | .19 |      | 3.17  |      |
| New Milford.**.....                        | Hackensack..... | 1.77         |     |   |   | .10 |     |     |   |   |    | .08 | .07 | .03 |     |     |    | .43 |     | 1.12   |     |    |    |    |    |     |    | .25   | .65  | .27 |     |      | 4.77  |      |
| Paterson.....                              | Passaic.....    | 1.89         | .02 |   |   | .05 | .13 |     |   |   |    | .16 |     | .06 |     |     |    | .54 | .03 | * 1.32 |     |    |    |    |    | T.  |    | T.    | .98  | T.  | .29 |      | 5.47  |      |
| Plainfield.....                            | Raritan.....    | 1.55         | T.  |   |   | .05 |     |     |   |   |    | .09 |     | T.  | .06 |     |    | .52 |     | .78    |     |    |    |    |    | T.  |    | .60   | .22  | T.  | .23 |      | 4.10  |      |
| Somerville.....                            | Raritan.....    | 1.46         |     |   |   | .08 |     |     |   |   |    | .15 |     | .13 |     |     |    | .42 |     | .97    |     |    |    |    |    | T.  |    | * 1.3 | .53  | T.  | .31 |      | 4.18  |      |
| South Orange.....                          | Rahway.....     | .78          | T.  |   |   | .05 |     |     |   |   |    | T.  | .02 | .04 | .01 |     |    | .03 |     | .73    |     |    |    |    |    |     |    |       | .68  | T.  | .36 |      | 2.70  |      |
| Woodcliff Lake**.....                      | Hackensack..... | 1.60         |     |   |   | .11 |     |     |   |   |    | .06 | .05 | .05 |     |     |    | .39 |     | 1.02   |     |    |    |    |    |     |    | .23   | .58  | .24 |     |      | 4.33  |      |
| New York, N. Y***.....                     | Coast.....      | 1.21         | T.  |   |   | .12 |     |     |   |   |    | .10 | .01 | .02 | .01 |     |    | .58 |     | .44    |     |    |    |    |    | T.  |    | .09   | .44  | .01 | .22 |      | 3.25  |      |
| <i>The Southern Interior.</i>              |                 |              |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      |       |      |
| Belleplain.....                            | Tuckahoe.....   | .80          |     |   |   | .03 | T.  |     |   |   |    |     |     |     |     |     |    | .38 | .01 |        |     |    |    |    |    |     |    | .12   | .23  |     | .06 | T.   | 1.63  |      |
| Bridgeton.....                             | Coast.....      |              |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      | 3.95  |      |
| Burlington.....                            | Delaware.....   | .95          | .22 |   |   | *   | .21 |     |   |   |    |     |     |     |     |     |    | .58 | .05 | .35    |     |    |    |    |    |     |    | .30   | 1.04 |     | .20 | .05  | 2.80  |      |
| Clayton.....                               | Delaware.....   | 1.30         |     |   |   | .60 |     |     |   |   |    |     |     |     |     |     |    | .35 |     |        |     |    |    |    |    |     |    | .25   | .20  |     | .10 |      |       |      |
| Hammonton.....                             | Mullica.....    | 1.30         |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      |       |      |
| Hightstown.....                            | Raritan.....    |              |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      |       |      |
| Imlaystown.....                            | Delaware.....   | .77          | .45 |   |   | .08 | .02 |     |   |   |    | .09 |     | .02 |     |     |    | .55 | .01 | .31    |     |    |    |    |    |     |    |       | .53  |     | .22 |      | 3.05  |      |
| Indian Mills.....                          | Mullica.....    | 1.08         |     |   |   | T.  | .10 |     |   |   |    |     |     |     |     |     |    | .40 | .10 |        |     |    |    |    |    |     |    |       | .35  | .41 | T.  | .17  |       | 2.61 |
| Lakewood.....                              | Metedeconk..... | 1.02         |     |   |   | T.  | .02 |     |   |   |    | .08 |     | .02 |     |     |    | .42 | .02 | .15    |     |    |    |    |    |     |    | T.    | .33  | T.  | .20 |      | 2.26  |      |
| Moorestown.....                            | Delaware.....   | 1.30         |     |   |   | .15 |     |     |   |   |    |     |     |     |     |     |    | .52 |     | .13    |     |    |    |    |    |     |    | *     | 1.27 | T.  | .07 |      | 3.44  |      |
| Northfield.....                            | Coast.....      | .89          |     |   |   | .03 |     |     |   |   |    |     |     |     |     |     |    | .31 |     |        |     |    |    |    |    |     |    | .05   | .22  |     | T.  |      | 1.50  |      |
| Pleasantville   .....                      | Coast.....      | .96          |     |   |   | .04 | T.  |     |   |   |    |     |     |     |     |     |    | .39 |     |        |     |    |    |    |    |     |    |       | .35  |     | .02 | T.   | 1.76  |      |
| Runyon.....                                | Coast.....      | 1.10         | .25 |   |   |     |     |     |   |   |    | .06 |     | .04 |     |     |    | .62 |     | .38    |     |    |    |    |    |     |    |       | .56  |     | .21 |      | 3.22  |      |
| Trenton***.....                            | Delaware.....   | 1.29         | T.  |   |   | .13 |     |     |   |   |    | .04 |     | T.  | T.  | T.  |    | .44 | .03 | .44    |     |    |    |    |    |     |    | .96   | .07  | T.  | .19 |      | 3.59  |      |
| Tuckerton.....                             | Coast.....      | .85          | .18 |   |   | .03 |     |     |   |   |    |     |     |     |     |     |    | .42 | .03 |        |     |    |    |    |    |     |    |       | .40  |     | .08 |      | 1.99  |      |
| Vineland.....                              | Maurice.....    | .90          |     |   |   | .02 |     |     |   |   |    |     |     |     |     |     |    | .36 |     |        |     |    |    |    |    |     |    | .30   | .90  |     | .13 |      | 2.61  |      |
| Phila., Pa***.....                         | Delaware.....   | 1.46         |     |   |   | .11 |     |     |   |   |    | .08 |     |     | T.  |     |    | .34 | .15 | .27    |     |    |    |    |    |     |    | .53   | .09  | T.  | .12 | T.   | 3.15  |      |
| <i>The Sea Coast.</i>                      |                 |              |     |   |   |     |     |     |   |   |    |     |     |     |     |     |    |     |     |        |     |    |    |    |    |     |    |       |      |     |     |      |       |      |
| Asbury Park.....                           | Coast.....      | 1.29         |     |   |   | .04 | T.  |     |   |   |    |     |     |     | T.  | .02 |    | .66 |     |        |     |    |    |    |    |     | T. |       | .42  | T.  | .08 |      | 2.51  |      |
| Atlantic City***.....                      | do.....         | .74          |     |   |   | .04 | T.  |     |   |   |    |     |     |     | T.  |     |    | .32 |     | T.     |     |    |    |    |    |     | T. |       | .11  | .32 |     | .03  | T.    | 1.56 |
| Cape May City.....                         | do.....         | .67          |     |   |   | .03 |     |     |   |   |    |     |     |     | .11 |     |    | .42 |     |        |     |    |    |    |    |     |    |       | .13  | .23 | .03 |      | .05   | 1.67 |
| Long Branch**.....                         | do.....         | .90          | T.  |   |   | .04 |     |     |   |   |    | .04 | T.  | .09 | T.  |     |    | .49 |     | .36    |     |    |    |    |    |     |    |       | .07  | .28 | .01 | .13  | .01   | 2.42 |
| Sandy Hook***.....                         | do.....         | 1.34         |     |   |   | .07 | T.  |     |   |   |    | .07 | T.  | .03 | .01 |     |    | .48 |     | .42    |     |    |    |    |    |     | T. |       | .03  | .34 | T.  | .18  | T.    | 2.97 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture |                                          | Sun-<br>shine                          |                                    |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------|------------------------------------------|----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |          | Relative humidity,<br>per cent at 8 a. m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date     |                                          |                                        |                                    |
| Atlantic City.....    | 30.08        | 30.63   | 16   | 29.44  | 28   | 18.0            | 60             | se.       | 1        | 78                                       | 75                                     | 56                                 |
| Cape May City.....    | 30.12        | 30.64   | 16   | 29.54  | 27   | 10.0            | 36             | se.       | 1        | 81                                       | 77                                     | .....                              |
| Long Branch.....      |              |         |      |        |      |                 | 43             | se.       | 1        |                                          |                                        | .....                              |
| New York, N. Y.....   | 30.07        | 30.67   | 16   | 29.33  | 28   | 19.0            | 68             | se.       | 1        | 70                                       | 62                                     | 62                                 |
| Philadelphia, Pa..... | 30.09        | 30.65   | 16   | 29.47  | 28   | 10.0            | 29             | n.        | 27       | 72                                       | 60                                     | 63                                 |
| Sandy Hook.....       | 30.06        | 30.65   | 16   | 29.35  | 28   | 16.0            | 49             | nw.       | 2        | 74                                       | 70                                     | 66                                 |
| Trenton.....          | 30.08        | 30.65   | 16   | 29.42  | 28   | 12.0            | 43             | w.        | 19       | 75                                       | 64                                     | 64                                 |



## Daily Temperatures for March, 1925

| Stations                             |              | 1  | 2    | 3  | 4  | 5  | 6    | 7  | 8  | 9  | 10   | 11 | 12   | 13   | 14 | 15 | 16   | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24   | 25 | 26 | 27   | 28     | 29 | 30 | 31                | Mean              |       |
|--------------------------------------|--------------|----|------|----|----|----|------|----|----|----|------|----|------|------|----|----|------|----|----|----|----|----|----|----|------|----|----|------|--------|----|----|-------------------|-------------------|-------|
| The Highlands and Kittatinny Valley. |              |    |      |    |    |    |      |    |    |    |      |    |      |      |    |    |      |    |    |    |    |    |    |    |      |    |    |      |        |    |    |                   |                   |       |
| Belvidere.....                       | Maximum..... | 38 | 35   | 30 | 40 | 38 | 61   | 62 | 59 | 61 | 51   | 63 | 57   | 48   | 61 | 58 | 51   | 48 | 63 | 66 | 63 | 58 | 56 | 60 | 69   | 75 | 72 | 57   | 42     | 53 | 50 | 54.8*             |                   |       |
|                                      | Minimum..... | 15 | 18   | 7  | 18 | 29 | 33   | 30 | 31 | 33 | 31   | 45 | 34   | 23   | 37 | 28 | 18   | 31 | 30 | 45 | 34 | 28 | 30 | 27 | 24   | 35 | 29 | 41   | 34     | 31 | 34 | 39                | 29.7              |       |
| Charlotteburg.....                   | Maximum..... | 34 | 32   | 28 | 39 | 41 | 54   | 58 | 58 | 59 | 54   | 64 | 61   | 48   | 60 | 48 | 40   | 41 | 61 | 67 | 59 | 55 | 59 | 45 | 54   | 58 | 73 | 71   | 51     | 40 | 47 | 46                | 51.8              |       |
|                                      | Minimum..... | 5  | 19   | 6  | 12 | 26 | 31   | 32 | 28 | 39 | 25   | 42 | 30   | 14   | 40 | 20 | 11   | 23 | 30 | 39 | 34 | 28 | 25 | 15 | 24   | 23 | 41 | 31   | 28     | 32 | 34 | 26.2*             |                   |       |
| Dover.....                           | Maximum..... | 32 | 40   | 29 | 39 | 40 | 57   | 60 | 55 | 56 | 50   | 64 | 57   | 49   | 50 | 46 | 47   | 38 | 58 | 66 | 52 | 60 | 53 | 60 | 57   | 62 | 74 | 72   | 45     | 43 | 49 | 47                | 51.8              |       |
|                                      | Minimum..... | 10 | 17   | 5  | 20 | 27 | 32   | 26 | 29 | 32 | 28   | 46 | 31   | 18   | 37 | 26 | 12   | 26 | 28 | 44 | 28 | 21 | 34 | 25 | 18   | 38 | 24 | 43   | 33     | 32 | 33 | 35                | 27.8              |       |
| Layton.....                          | Maximum..... | 41 | 31   | 29 | 42 | 37 | 59   | 60 | 58 | 57 | 51   | 62 | 51   | 48   | 63 | 52 | 48   | 45 | 60 | 66 | 57 | 61 | 56 | 53 | 58   | 65 | 73 | 71   | 42     | 50 | 49 | 53.2*             |                   |       |
|                                      | Minimum..... | 19 | 13   | 9  | 20 | 32 | 33   | 34 | 32 | 36 | 33   | 47 | 34   | 26   | 39 | 34 | 22   | 34 | 36 | 46 | 37 | 30 | 30 | 29 | 26   | 37 | 35 | 37   | 38     | 33 | 33 | 40                | 31.7              |       |
| Newton.....                          | Maximum..... | 36 | 39   | 31 | 38 | 37 | 52   | 58 | 56 | 55 | 51   | 66 | 57   | 48   | 58 | 58 | 48   | 40 | 61 | 66 | 53 | 60 | 56 | 51 | 58   | 62 | 74 | 73   | 59     | 42 | 49 | 46                | 52.8              |       |
|                                      | Minimum..... | 12 | 19   | 7  | 19 | 28 | 33   | 27 | 29 | 34 | 28   | 43 | .... | 20   | 37 | 28 | 15   | 25 | 31 | 42 | 31 | 23 | 33 | 26 | 20   | 34 | 22 | 36   | 34     | 32 | 35 | 39                | 28.1*             |       |
| The Red Sandstone Plain.             |              |    |      |    |    |    |      |    |    |    |      |    |      |      |    |    |      |    |    |    |    |    |    |    |      |    |    |      |        |    |    |                   |                   |       |
| Bergen Point.....                    | Maximum..... | 46 | 45   | 31 | 48 | 39 | .... | 58 | 52 | 54 | .... | 64 | 59   | 50   | 62 | 56 | 46   | 47 | 58 | 71 | 57 | 56 | 59 | 52 | 48   | 64 | 72 | 62   | 58     | 48 | 48 | 48                | 53.7 <sup>b</sup> |       |
|                                      | Minimum..... | 28 | 21   | 10 | 22 | 34 | 25   | 36 | 39 | 36 | 36   | 46 | 39   | 30   | 40 | 33 | 28   | 37 | 38 | 45 | 41 | 34 | 40 | 32 | 33   | 39 | 39 | 39   | 39     | 38 | 40 | 38                | 34.7              |       |
| Boonton§§.....                       | Maximum..... | 42 | 33   | 29 | 42 | 39 | 57   | 60 | 57 | 58 | 52   | 60 | 47   | 48   | 64 | 39 | 46   | 44 | 62 | 66 | 55 | 60 | 55 | 51 | 55   | 63 | 71 | 60   | 42     | 43 | 50 | 48                | 51.8              |       |
|                                      | Minimum..... | 12 | 17   | 7  | 9  | 22 | 32   | 28 | 29 | 31 | 29   | 34 | 35   | 19   | 29 | 30 | 14   | 22 | 30 | 39 | 37 | 23 | 31 | 28 | 20   | 28 | 26 | 38   | 36     | 33 | 32 | 39                | 27.1              |       |
| Elizabeth.....                       | Maximum..... | 46 | 43   | 30 | 48 | 43 | 58   | 61 | 56 | 54 | 52   | 65 | 61   | 51   | 65 | 64 | 46   | 46 | 61 | 72 | 58 | 60 | 61 | 53 | 52   | 68 | 74 | 70   | 64     | 46 | 51 | 50                | 55.7              |       |
|                                      | Minimum..... | 17 | 24   | 10 | 19 | 33 | 36   | 34 | 34 | 36 | 35   | 46 | 37   | 26   | 41 | 30 | 22   | 33 | 36 | 43 | 39 | 29 | 36 | 28 | 27   | 34 | 34 | 41   | 37     | 35 | 37 | 41                | 30.9              |       |
| Flemington.....                      | Maximum..... | 41 | 41   | 32 | 45 | 40 | 57   | 60 | 59 | 64 | 64   | 64 | 58   | 49   | 64 | 63 | 52   | 46 | 63 | 70 | 59 | 62 | 59 | 56 | 59   | 67 | 74 | 74   | 59     | 43 | 51 | 49                | 56.8              |       |
|                                      | Minimum..... | 16 | 22   | 9  | 17 | 32 | 35   | 33 | 30 | 35 | 31   | 46 | 36   | 25   | 39 | 30 | 20   | 29 | 34 | 44 | 37 | 28 | 41 | 29 | 26   | 34 | 41 | 36   | 33     | 35 | 41 | 30.3              |                   |       |
| Highwood.....                        | Maximum..... | 47 | 46   | 30 | 46 | 39 | 55   | 59 | 56 | 53 | 49   | 64 | 55   | 50   | 64 | 58 | 45   | 46 | 59 | 70 | 55 | 57 | 58 | 52 | 63   | 72 | 64 | 73   | 64     | 46 | 50 | 53.5              |                   |       |
|                                      | Minimum..... | 15 | 19   | 10 | 21 | 31 | 35   | 32 | 31 | 35 | 32   | 47 | 36   | 23   | 39 | 31 | 18   | 30 | 31 | 41 | 38 | 26 | 34 | 25 | 23   | 31 | 30 | 43   | 37     | 35 | 37 | 41                | 30.9              |       |
| Jersey City.....                     | Maximum..... | 48 | 41   | 30 | 48 | 44 | 57   | 60 | 55 | 56 | 54   | 63 | 52   | 49   | 64 | 50 | 44   | 46 | 59 | 70 | 57 | 56 | 57 | 51 | 62   | 70 | 64 | 73   | 64     | 46 | 50 | 53.5              |                   |       |
|                                      | Minimum..... | 28 | 18   | 11 | 24 | 34 | 35   | 40 | 39 | 37 | 37   | 48 | 38   | 34   | 41 | 31 | 29   | 37 | 40 | 42 | 40 | 38 | 37 | 31 | 36   | 39 | 44 | 46   | 37     | 34 | 36 | 40                | 35.5              |       |
| Lambertville.....                    | Maximum..... | 42 | 41   | 26 | 43 | 38 | 55   | 58 | 57 | 54 | 55   | 62 | 49   | 63   | 62 | 50 | 46   | 60 | 67 | 56 | 60 | 55 | 50 | 57 | 64   | 71 | 74 | 57   | 40     | 49 | 47 | 53.4              |                   |       |
|                                      | Minimum..... | 19 | 19   | 8  | 19 | 33 | 34   | 39 | 32 | 35 | 32   | 42 | 36   | 28   | 39 | 29 | 22   | 31 | 36 | 41 | 38 | 34 | 39 | 28 | 30   | 36 | 41 | 47   | 35     | 32 | 33 | 39                | 32.5              |       |
| Little Falls§§.....                  | Maximum..... | 47 | 33   | 29 | 42 | 41 | 59   | 59 | 53 | 62 | 56   | 69 | 48   | 49   | 69 | 41 | 43   | 48 | 63 | 69 | 56 | 53 | 53 | 40 | .... | 66 | 72 | 64   | 45     | 42 | 51 | 49                | 52.3              |       |
|                                      | Minimum..... | 14 | 26   | 9  | 13 | 27 | 34   | 31 | 31 | 34 | 31   | 41 | 36   | 23   | 34 | 30 | 18   | 28 | 32 | 41 | 39 | 27 | 36 | 28 | 23   | 34 | 40 | 43   | 36     | 41 | 43 | 50                | 48.5              |       |
| New Brunswick.....                   | Maximum..... | 48 | 44   | 27 | 46 | 44 | 57   | 60 | 56 | 57 | 65   | 63 | 50   | 66   | 65 | 66 | 48   | 48 | 61 | 70 | 57 | 61 | 58 | 51 | 55   | 64 | 70 | 76   | 61     | 43 | 50 | 49                | 55.8              |       |
|                                      | Minimum..... | 16 | 24   | 9  | 20 | 32 | 35   | 34 | 32 | 35 | 30   | 46 | 37   | 25   | 39 | 31 | 22   | 32 | 36 | 44 | 33 | 31 | 36 | 30 | 26   | 36 | 42 | 47   | 35     | 32 | 33 | 39                | 30.3              |       |
| Paterson.....                        | Maximum..... | 38 | 37   | 32 | 48 | 41 | 59   | 61 | 56 | 58 | 50   | 66 | 60   | 50   | 64 | 63 | 45   | 45 | 61 | 69 | 59 | 60 | 60 | 56 | 62   | 67 | 75 | 67   | 61     | 45 | 50 | 50                | 55.0              |       |
|                                      | Minimum..... | 20 | 23   | 11 | 20 | 34 | 36   | 32 | 35 | 36 | 35   | 47 | 38   | .... | 40 | 32 | 24   | 32 | 42 | 46 | 42 | 40 | 31 | 40 | 31   | 28 | 36 | 37   | 46     | 38 | 35 | 37                | 41                | 33.8* |
| Plainfield.....                      | Maximum..... | 44 | 38   | 29 | 47 | 39 | 57   | 61 | 59 | 59 | 54   | 64 | 54   | 50   | 64 | 55 | 47   | 46 | 62 | 66 | 42 | 40 | 31 | 40 | 31   | 28 | 36 | 37   | 46     | 38 | 35 | 37                | 41                | 33.8* |
|                                      | Minimum..... | 13 | 17   | 9  | 15 | 31 | 35   | 28 | 28 | 30 | 29   | 46 | 35   | 22   | 40 | 30 | 18   | 26 | 36 | 42 | 39 | 26 | 28 | 29 | 23   | 30 | 30 | 38   | 37     | 33 | 36 | 40                | 29.6              |       |
| Somerville.....                      | Maximum..... | 45 | 43   | 30 | 46 | 42 | 59   | 62 | 60 | 59 | 56   | 64 | 58   | 49   | 65 | 65 | 50   | 48 | 63 | 71 | 56 | 63 | 60 | 54 | 58   | 66 | 75 | 77   | 59     | 45 | 51 | 49                | 56.4              |       |
|                                      | Minimum..... | 16 | 23   | 9  | 16 | 32 | 35   | 28 | 29 | 35 | 29   | 48 | 37   | 22   | 40 | 31 | 18   | 29 | 33 | 44 | 35 | 25 | 31 | 28 | 24   | 32 | 29 | 41   | 37     | 34 | 36 | 42                | 30.6              |       |
| South Orange.....                    | Maximum..... | 45 | 38   | 28 | 45 | 39 | 56   | 56 | 55 | 54 | 52   | 64 | 50   | 49   | 64 | 39 | 43   | 46 | 57 | 69 | 54 | 58 | 56 | 50 | 50   | 62 | 70 | 64   | 45     | 46 | 51 | 48                | 51.7              |       |
|                                      | Minimum..... | 18 | 11   | 10 | 22 | 35 | 36   | 36 | 38 | 36 | 35   | 49 | 31   | 28   | 39 | 28 | 23   | 32 | 38 | 43 | 38 | 32 | 35 | 31 | 29   | 35 | 32 | 45   | 37     | 35 | 37 | 42                | 32.9              |       |
| New York, N. Y.....                  | Maximum..... | 48 | 41   | 29 | 47 | 43 | 55   | 59 | 53 | 53 | 63   | 62 | 50   | 48   | 64 | 47 | 41   | 46 | 56 | 68 | 54 | 52 | 56 | 51 | 47   | 61 | 67 | 59   | 48     | 44 | 49 | 49                | 51.6              |       |
|                                      | Minimum..... | 28 | 12   | 10 | 24 | 34 | 36   | 42 | 39 | 37 | 38   | 49 | 38   | 36   | 41 | 31 | 29   | 37 | 40 | 42 | 40 | 40 | 37 | 31 | 37   | 40 | 46 | 47   | 37     | 34 | 36 | 40                | 35.7              |       |
| The Southern Interior.               |              |    |      |    |    |    |      |    |    |    |      |    |      |      |    |    |      |    |    |    |    |    |    |    |      |    |    |      |        |    |    |                   |                   |       |
| Belleplain.....                      | Maximum..... | 53 | 48   | 49 | 48 | 42 | 62   | 64 | 61 | 58 | 60   | 72 | 66   | 53   | 71 | 67 | 47   | 55 | 64 | 74 | 59 | 60 | 62 | 53 | 67   | 70 | 73 | 57   | 45     | 49 | 51 | 58.6              |                   |       |
|                                      | Minimum..... | 11 | 22   | 10 | 14 | 26 | 36   | 35 | 29 | 33 | 27   | 46 | 40   | 21   | 42 | 33 | 15   | 32 | 32 | 45 | 38 | 24 | 41 | 27 | 21   | 32 | 28 | 47   | 38     | 28 | 29 | 39                | 35.4              |       |
| Bridgeton.....                       | Maximum..... | 49 | 48   | 29 | 48 | 45 | 56   | 62 | 64 | 59 | .... | 68 | 67   | 53   | 66 | 67 | 54   | 52 | 64 | 71 | 58 | 65 | 66 | 58 | 63   | 68 | 75 | 79   | ....   | 53 | 50 | 59.2 <sup>a</sup> |                   |       |
|                                      | Minimum..... | 13 | 22   | 8  | 17 | 32 | 34   | 30 | 31 | 38 | 34   | 32 | 28   | 26   | 41 | 31 | 23   | 31 | 34 | 45 | 37 | 30 | 31 | 30 | 21   | 31 | 33 | .... | 32     | 33 | 34 | 39                | 30.4*             |       |
| Clayton.....                         | Maximum..... | 42 | .... | 29 | 49 | 43 | 57   | 63 | 64 | 58 | 62   | 72 | 72   | 53   | 70 | 66 | .... | 63 | 74 | 58 | 62 | 64 | 60 | 60 | 68   | 72 | 76 | 64   | ....</ |    |    |                   |                   |       |



# CLIMATOLOGICAL DATA. MAY 28 1925

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXX. APRIL, 1925. No. 4

### GENERAL SUMMARY.

April was an unusually pleasant month, and the earlier half was especially advantageous for out-of-door interests, due to persistent sunshiny days and absence of rain. Abnormal warmth prevailed with but little reversal, and moisture and wind movement were slightly deficient. There has been but one warmer April and one drier April in the past ten years, and altogether it was a notable month for these two weather elements. It was in marked contrast with April a year ago, which opened with a snowstorm with resulting retardation to vegetation and to all agricultural interests. This year foliage and early bloom were some two weeks in advance of normal, and industrial operations dependant upon favorable weather were well advanced.

It is interesting to recall an ancient record of April, 1854, on the three days, 14th to 17th, two feet of snow fell in New Brunswick. This occurrence, therefore, may well be taken into consideration in determining safe dates of starting upon weather dependant projects.

Storm warnings were displayed along the coast on the 19th and 28th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 33 stations, was 51.4°, which was 2.1° above normal. The highest temperature was 88° at Belvidere and Paterson on the 23d, and the lowest, 15°, at Runyon on the 7th. The greatest daily range of temperature was 50° at Runyon on the 7th. The highest monthly mean temperature was 55.2° at Vineland, and the lowest, 48.0° at Layton.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +2.4°; Red Sandstone Plain, +2.2°; Southern Interior, +3.6°; Sea Coast, +3.4°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 40 stations, was 2.40 inches, which was 1.22 inches below normal. The snowfall was a trace, which was 1.5 inches below normal. The greatest monthly precipitation was 3.35 inches, at Indian Mills, and the least, 1.31 inches at Boonton. The greatest amount of precipitation in any 24 consecutive hours was 1.53 inches at Sandy Hook on the 14-15th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, -0.74 inch; Red Sandstone Plain, -1.75 inches; Southern Interior, -3.01 inches; Sea Coast, -4.13 inches.

### WIND.

The prevailing wind direction was from the northeast. The wind movement averaged 13 miles per hour, which was normal.

The highest velocity, sustained for 5 consecutive minutes, was 53 miles per hour from the northeast at Atlantic City on the 29th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was 3 more than normal; partly cloudy, 7, or 2 less than normal; cloudy, 8, or 1 less than normal. The per cent of possible sunshine was 66, which was 9 per cent above normal.

### MISCELLANEOUS.

The mean daily stage of the Delaware River at Phillipsburg was 3.7 feet, and the highest stage 5.5 feet on the 2d. At Trenton the mean stage was 2.3 feet, which was 1.6 feet below the normal; the highest stage was 3.3 feet on the 1st.

The mean atmospheric pressure, reduced to sea level, was 30.03 inches, which was 0.03 inch above normal. The highest reading was 30.57 at Trenton on the 21st, and the lowest 29.58 at Trenton and Atlantic City on the 19th.

Dense fog was reported on the 11th, 12th, 15th, 18th and 25th. Solar halos were observed on the 7th and 12th, and lunar halos on the 2d, 4th, 6th, 9th and 26th. Thunderstorms occurred on the 10th, 14th, 15th, 18th, 19th, 23d, 24th, 25th and 26th. The last killing frost over the State was on the 21st-22d.

Light hail occurred at several localities in the central and northern districts on the 15th. Some of the hail at Sussex on this date was up to one and one-half inches in diameter. There were scattered occurrences on the 21st and 25th. No material damage by the hail was reported.

### COMPARATIVE DATA FOR APRIL

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 48.4        | 88      | 26     | 2.79          | 2.86     | 0.89  | .....      | .....         | .....  | .....                  |
| 1886..... | 50.6        | 86      | 27     | 3.40          | 5.48     | 1.86  | .....      | .....         | .....  | .....                  |
| 1887..... | 47.3        | 87      | 16     | 2.70          | 3.77     | 0.91  | .....      | .....         | .....  | .....                  |
| 1888..... | 47.9        | 92      | 22     | 3.28          | 4.63     | 1.89  | .....      | .....         | .....  | .....                  |
| 1889..... | 51.2        | 83      | 25     | 5.32          | 7.25     | 2.92  | .....      | .....         | .....  | .....                  |
| 1890..... | 50.4        | 86      | 21     | 2.65          | 4.58     | 1.89  | .....      | .....         | .....  | .....                  |
| 1891..... | 52.0        | 88      | 20     | 2.19          | 3.80     | 1.39  | 13         | .....         | .....  | .....                  |
| 1892..... | 49.3        | 87      | 19     | 2.49          | 4.41     | 1.05  | 9          | 13            | 8      | 8                      |
| 1893..... | 49.2        | 82      | 19     | 5.21          | 7.12     | 2.97  | 9          | 10            | 12     | 11                     |
| 1894..... | 50.3        | 88      | 10     | 3.09          | 4.86     | 1.71  | 12         | 9             | 9      | 9                      |
| 1895..... | 49.1        | 89      | 19     | 4.88          | 7.75     | 3.47  | 11         | 7             | 12     | 10                     |
| 1896..... | 52.4        | 98      | 12     | 1.55          | 2.80     | 0.64  | 13         | 10            | 7      | 7                      |
| 1897..... | 50.4        | 89      | 19     | 3.79          | 6.98     | 2.17  | 14         | 11            | 5      | 9                      |
| 1898..... | 47.8        | 81      | 13     | 3.74          | 4.94     | 2.17  | 8          | 11            | 11     | 11                     |
| 1899..... | 49.9        | 88      | 18     | 1.73          | 3.25     | 0.48  | 16         | 10            | 4      | 4                      |
| 1900..... | 50.8        | 82      | 18     | 2.29          | 3.03     | 1.59  | 14         | 9             | 7      | 6                      |
| 1901..... | 48.3        | 89      | 23     | 6.31          | 10.22    | 3.46  | 8          | 7             | 15     | 12                     |
| 1902..... | 50.2        | 93      | 20     | 3.62          | 5.99     | 2.45  | 10         | 11            | 9      | 9                      |
| 1903..... | 50.9        | 92      | 18     | 3.97          | 7.03     | 2.40  | 13         | 7             | 10     | 9                      |
| 1904..... | 46.7        | 85      | 16     | 3.42          | 4.71     | 2.00  | 9          | 12            | 9      | 10                     |
| 1905..... | 49.9        | 84      | 18     | 2.88          | 4.03     | 1.53  | 12         | 11            | 7      | 10                     |
| 1906..... | 51.2        | 87      | 17     | 3.64          | 6.42     | 1.17  | 15         | 10            | 5      | 8                      |
| 1907..... | 45.2        | 83      | 19     | 3.78          | 8.67     | 2.06  | 11         | 9             | 10     | 11                     |
| 1908..... | 51.2        | 93      | 13     | 2.72          | 3.86     | 1.42  | 14         | 9             | 7      | 11                     |
| 1909..... | 50.2        | 88      | 17     | 5.97          | 8.90     | 3.84  | 10         | 11            | 9      | 13                     |
| 1910..... | 53.5        | 88      | 20     | 5.34          | 7.56     | 3.43  | 9          | 11            | 10     | 12                     |
| 1911..... | 47.4        | 88      | 14     | 4.11          | 5.58     | 2.87  | 10         | 10            | 10     | 11                     |
| 1912..... | 50.4        | 82      | 18     | 3.56          | 6.02     | 1.81  | 9          | 10            | 11     | 14                     |
| 1913..... | 52.1        | 89      | 19     | 5.78          | 8.53     | 4.14  | 14         | 7             | 9      | 11                     |
| 1914..... | 48.4        | 89      | 16     | 3.67          | 4.78     | 2.35  | 13         | 10            | 7      | 11                     |
| 1915..... | 54.4        | 96      | 20     | 2.71          | 4.13     | 1.28  | 14         | 10            | 6      | 9                      |
| 1916..... | 48.2        | 85      | 21     | 3.32          | 6.14     | 0.90  | 10         | 9             | 11     | 13                     |
| 1917..... | 48.8        | 88      | 21     | 2.39          | 3.54     | 1.19  | 15         | 8             | 7      | 9                      |
| 1918..... | 49.8        | 81      | 22     | 4.05          | 5.79     | 2.88  | 11         | 8             | 11     | 12                     |
| 1919..... | 49.3        | 85      | 15     | 3.06          | 4.79     | 2.20  | 13         | 7             | 10     | 10                     |
| 1920..... | 48.0        | 85      | 13     | 4.50          | 6.06     | 2.90  | 12         | 9             | 9      | 13                     |
| 1921..... | 56.3        | 87      | 20     | 3.57          | 5.20     | 1.86  | 13         | 6             | 11     | 11                     |
| 1922..... | 51.0        | 89      | 18     | 2.55          | 4.12     | 1.57  | 15         | 7             | 8      | 10                     |
| 1923..... | 50.0        | 91      | 3      | 3.55          | 6.59     | 2.27  | 16         | 6             | 8      | 9                      |
| 1924..... | 48.0        | 81      | 18     | 6.15          | 9.23     | 4.74  | 15         | 6             | 9      | 11                     |
| 1925..... | 51.4        | 88      | 15     | 2.40          | 3.35     | 1.31  | 15         | 7             | 8      | 9                      |



## Climatological Data for April, 1925

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 34                      | 51.7 <sup>a</sup>            | +1.9                      | 88      | 23    | 23     | 21    | 43                       | 2.48  | -1.18                     | 1.35                 | 0                         | 7                            | 20    | 4          | 6                            | ..        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 33                      | 48.6 <sup>b</sup>            | +1.8                      | 80      | 23†   | 18     | 17    | 44                       | 1.69  | -2.63                     | 0.75                 | T.                        | 7                            | 14    | 4          | 12                           | w.        |                                                                                                                          |
| Culvers Lake††.....                  | Sussex.....     | 848             | 24                      | .....                        | .....                     | .....   | ..... | 23     | 6†    | .....                    | 2.44  | -1.38                     | 1.01                 | T.                        | 10                           | 18    | 4          | 8                            | se.       |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 41                      | .....                        | .....                     | 85      | 23    | .....  | ..... | .....                    | 1.79  | -1.97                     | 0.83                 | T.                        | 8                            | 10    | 10         | 10                           | .....     |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 24                      | 48.0                         | +0.8                      | 83      | 23    | 20     | 6†    | 43                       | 2.01  | -1.60                     | 0.61                 | T.                        | 9                            | 17    | 3          | 10                           | sw.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 42                      | 50.0 <sup>d</sup>            | +2.0                      | 84      | 23    | 24     | 6†    | .....                    | 1.72  | -1.65                     | 0.72                 | T.                        | 7                            | 15    | 8          | 7                            | ne.       |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 42                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.31  | -1.13                     | 0.96                 | 0                         | 6                            | 17    | 2          | 11                           | .....     |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 49.7                         | +1.1                      | 83      | 23    | 21     | 6†    | 41                       | 2.31  | -1.13                     | 0.96                 | 0                         | 9                            | 14    | 7          | 9                            | nw.       |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 49.6                         | +1.5                      | 88      | 23    | 18     | 17    | 44                       | 2.06  | -1.65                     | 1.35                 | T.                        | 8                            | 16    | 5          | 9                            | ne.       |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                  | Hudson.....     | 37              | 28                      | 51.6 <sup>b</sup>            | +2.1                      | 83      | 23    | 33     | 6†    | 44                       | 2.04  | -2.35                     | 0.61                 | 0                         | 11                           | 9     | 15         | 6                            | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                         | Morris.....     | 400             | 35                      | 49.1                         | +0.4                      | 83      | 23    | 23     | 6     | 40                       | 1.31  | -2.68                     | 0.66                 | .....                     | 7                            | 20    | 1          | 9                            | ne.       |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 21                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.24  | -1.86                     | 0.96                 | 0                         | 7                            | 16    | 12         | 2                            | .....     |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 46                      | 52.8                         | +2.0                      | 85      | 23    | 29     | 7     | 41                       | 2.27  | -1.41                     | 0.87                 | 0                         | 9                            | 13    | 11         | 6                            | ne.       |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 39                      | 52.2                         | +1.8                      | 85      | 23    | 27     | 7     | 43                       | 2.80  | -0.72                     | 1.38                 | 0                         | 11                           | 18    | 4          | 8                            | e.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                      | Bergen.....     | 90              | 37                      | 50.2                         | +1.7                      | 85      | 23    | 26     | 6     | 41                       | 1.83  | -1.60                     | 0.70                 | T.                        | 7                            | 7     | 13         | 10                           | ne.       |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 27                      | 52.2                         | +2.2                      | 84      | 23    | 32     | 21    | 38                       | 1.95  | -2.21                     | 0.65                 | T.                        | 9                            | 15    | 11         | 4                            | nw.       |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 38                      | 50.9                         | +0.2                      | 82      | 23    | 27     | 21    | 39                       | 2.80  | -0.78                     | 1.09                 | 0                         | 11                           | 18    | 3          | 9                            | sw.       |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 22                      | 50.0                         | +0.1                      | 85      | 23    | 26     | 6     | 39                       | 2.06  | -2.06                     | 0.87                 | T.                        | 8                            | 14    | 6          | 10                           | se.       | Passaic Consol. Water Co.<br>N. J. Experiment Station<br>Hackensack Water Co<br>Marion T. Probert.                       |
| New Brunswick.....                   | Middlesex.....  | 110             | 72                      | 51.6                         | +2.0                      | 84      | 23    | 26     | 7     | 42                       | 2.80  | -0.94                     | 1.06                 | 0                         | 10                           | 15    | 8          | 7                            | w.        |                                                                                                                          |
| New Milford††.....                   | Bergen.....     | 9               | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.74  | .....                     | 0.63                 | .....                     | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 54                      | 53.6                         | +3.1                      | 88      | 23    | 29     | 6     | 43                       | 2.19  | -1.37                     | 0.78                 | T.                        | 7                            | 13    | 6          | 11                           | nw.       |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 37                      | 50.6                         | +1.0                      | 84      | 23    | 24     | 6     | 43                       | 1.96  | -1.94                     | 0.70                 | 0                         | 10                           | 14    | 9          | 7                            | nw.       | E. D. Pearson.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                                           |
| Somerville.....                      | Somerset.....   | 70              | 42                      | 51.4                         | +1.9                      | 85      | 23    | 22     | 6     | 46                       | 2.55  | -0.94                     | 1.14                 | 0                         | 10                           | 19    | 3          | 8                            | w.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 55                      | 50.6                         | +2.1                      | 84      | 23    | 29     | 6     | 40                       | 2.14  | -1.43                     | 0.82                 | 0                         | 8                            | 12    | 10         | 8                            | nw.       |                                                                                                                          |
| Woodcliff Lake††.....                | Bergen.....     | 100             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.49  | .....                     | 0.50                 | .....                     | 5                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| New York, N. Y.....                  |                 | 365             | 55                      | 51.2                         | +1.8                      | 83      | 23    | 32     | 21    | 36                       | 1.73  | -1.57                     | 0.57                 | T.                        | 7                            | 6     | 15         | 9                            | .....     | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....              |                 | .....           | .....                   | 51.3                         | +1.6                      | 88      | 23    | 22     | 6     | 46                       | 2.14  | -1.59                     | 1.38                 | 0                         | 9                            | 14    | 8          | 8                            | nw.       |                                                                                                                          |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belleplain.....                      | Cape May.....   | 30              | 31                      | 52.4                         | +1.8                      | 83      | 26    | 17     | 7     | 46                       | 3.03  | -0.62                     | 0.47                 | 0                         | 14                           | 17    | 5          | 8                            | w.        | Thomas J. Durell.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                                                |
| Bridgeton.....                       | Cumberland..... | 30              | 44                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 39                      | 53.4 <sup>a</sup>            | +1.6                      | 86      | 24    | 26     | 7     | .....                    | 2.69  | -1.01                     | 0.65                 | 0                         | 11                           | 16    | 5          | 9                            | e.        |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 29                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | §     | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.<br>James M. Armstrong.                               |
| Hightstown††.....                    | Mercer.....     | 120             | 33                      | 52.0                         | +1.5                      | 82      | 23†   | 25     | 7     | 42                       | ..... | .....                     | .....                | .....                     | 11                           | 11    | 8          | .....                        | .....     |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 52.2                         | +1.7                      | 82      | 23†   | 23     | 7     | 41                       | 2.57  | -0.87                     | 0.62                 | 0                         | 12                           | 21    | 5          | 4                            | sw.       |                                                                                                                          |
| Indian Mills††.....                  | Burlington..... | 76              | 36                      | 53.9 <sup>b</sup>            | +3.6                      | 83      | 15    | .....  | ..... | 42                       | 3.35  | -0.08                     | 0.75                 | 0                         | 10                           | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Lakewood.....                        | Ocean.....      | 54              | 21                      | 51.1                         | +1.7                      | 83      | 23    | 20     | 7     | 43                       | 2.94  | -0.73                     | 0.48                 | 0                         | 11                           | 13    | 6          | 11                           | ne.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                      |
| Moorestown.....                      | Burlington..... | 75              | 62                      | 53.2 <sup>b</sup>            | +2.8                      | 83      | 26    | 27     | 7     | 39                       | 2.53  | -0.76                     | 0.68                 | 0                         | 9                            | 16    | 6          | 8                            | n.        |                                                                                                                          |
| Northfield††.....                    | Atlantic.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.86  | -0.60                     | 0.46                 | 0                         | 14                           | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville††.....                 | Atlantic.....   | 26              | 27                      | 50.6                         | .....                     | 82      | 23†   | 19     | 7     | 38                       | 2.99  | -0.36                     | 0.56                 | 0                         | 11                           | 16    | 9          | 5                            | ne.       |                                                                                                                          |
| Runyon††.....                        | Middlesex.....  | 18              | .....                   | 49.6 <sup>a</sup>            | .....                     | 87      | 23    | 15     | 7     | 50                       | 2.18  | .....                     | 0.66                 | 0                         | 10                           | 15    | 11         | 4                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                         | Mercer.....     | 190             | 53                      | 51.8                         | +2.0                      | 82      | 26    | 30     | 21    | 36                       | 2.35  | -0.94                     | 0.57                 | 0                         | 11                           | 7     | 13         | 10                           | n.        |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 32                      | 52.5                         | +3.2                      | 82      | 23    | 23     | 7     | 37                       | 2.54  | -1.20                     | 0.55                 | 0                         | 10                           | 18    | 7          | 5                            | ne.       |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 56                      | 55.2                         | +4.2                      | 85      | 26†   | 28     | 7     | 38                       | 2.78  | -0.62                     | 0.71                 | 0                         | 12                           | 16    | 9          | 5                            | se.       |                                                                                                                          |
| Philadelphia, Pa.....                | .....           | 117             | 55                      | 55.0                         | +2.9                      | 84      | 23    | 34     | 21    | 34                       | 2.43  | -0.48                     | 0.58                 | 0                         | 13                           | 13    | 9          | 8                            | sw.       |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 52.4                         | +2.5                      | 87      | 23    | 15     | 7     | 50                       | 2.73  | -0.71                     | 0.75                 | 0                         | 11                           | 16    | 7          | 7                            | ne.       |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 36                      | .....                        | .....                     | 82      | 23    | .....  | ..... | .....                    | 2.80  | -0.89                     | 0.74                 | 0                         | 9                            | 18    | 6          | 6                            | ne.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 51                      | 51.0                         | +3.2                      | 83      | 27    | 33     | 21    | 26                       | 2.68  | -0.31                     | 0.51                 | 0                         | 11                           | 15    | 6          | 9                            | ne.       |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 41                      | 52.3                         | +3.9                      | 85      | 27    | 31     | 21    | 28                       | 3.26  | +0.27                     | 0.73                 | 0                         | 14                           | 14    | 6          | 10                           | ne.       |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 18                      | 50.4                         | +2.3                      | 82      | 23    | 31     | 7     | 35                       | 3.11  | -1.44                     | 0.98                 | 0                         | 10                           | 16    | 7          | 7                            | e.        |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 27                      | 50.4                         | +3.4                      | 79      | 23    | 35     | 21    | 32                       | 2.69  | -1.27                     | 1.53                 | 0                         | 9                            | 9     | 13         | 8                            | s.        |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 51.0                         | +3.2                      | 85      | 27    | 31     | 7     | 35                       | 2.91  | -0.73                     | 1.53                 | 0                         | 11                           | 14    | 8          | 8                            | ne.       |                                                                                                                          |
| For the State.....                   |                 | .....           | .....                   | 51.4                         | +2.1                      | 88      | 23    | 15     | 7     | 50                       | 2.40  | -1.22                     | 1.53                 | 0                         | 9                            | 15    | 7          | 8                            | ne.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



## Daily Precipitation for April, 1925

| Stations                                   | Drainage Basin  | Day of month |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      | Total |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|-----|---|---|---|---|-----|-----|----|-----|------|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|------|------|-------|
|                                            |                 | 1            | 2   | 3   | 4   | 5   | 6 | 7 | 8 | 9 | 10  | 11  | 12 | 13  | 14   | 15  | 16  | 17  | 18  | 19  | 20  | 21 | 22 | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30   | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Belvidere.....                             | Delaware.....   |              | .20 |     |     |     |   |   |   |   | .07 | .20 |    |     | 1.35 |     |     |     |     | *   | .10 |    |    |     | .19 |     |     |     |     |     | .37  | 2.48 |       |
| Charlotteburg.....                         | Passaic.....    |              |     |     |     |     |   |   |   |   | .30 | .75 |    |     | .75  |     |     |     |     | *   | .05 |    |    |     | .03 |     |     |     |     |     | .56  | 1.69 |       |
| Culvers Lake.....                          | Delaware.....   |              | .03 |     |     | .01 |   |   |   |   | .25 | .05 |    |     | 1.01 |     |     |     |     | .11 | .08 |    |    |     | .10 | .38 |     |     |     |     | .42  | 2.44 |       |
| Dover.....                                 | Passaic.....    |              | .04 |     |     |     |   |   |   |   | .40 |     |    |     | .83  |     |     |     |     | .10 | T   |    |    |     | .09 |     |     | .01 |     |     | .32  | 1.79 |       |
| Layton.....                                | Delaware.....   |              |     |     |     |     |   |   |   |   | .26 | .02 |    | .03 | .61  |     |     |     |     | .22 | .03 |    |    |     | .26 | .20 |     |     |     |     | .38  | 2.01 |       |
| Newton.....                                | Delaware.....   |              | .06 |     |     |     |   |   |   |   | .12 | .18 |    |     | .72  | T   |     |     |     | .11 | T   |    |    |     | .20 |     |     |     |     |     | .33  | 1.72 |       |
| Phillipsburg.....                          | do.....         |              |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Sussex.....                                | Hudson.....     |              | .04 |     |     |     |   |   |   |   | .14 | .17 |    |     | .96  |     |     |     |     | .12 | .14 |    |    |     | .15 | .32 |     |     |     |     | .27  | 2.31 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Bergen Point**.....                        | Coast.....      |              | T   |     | .01 | .01 |   |   |   |   | .46 |     |    |     | .38  | .23 |     | .02 |     | .14 |     |    |    |     | .14 |     |     | .08 | .29 | .28 |      | 2.04 |       |
| Boonton   .....                            | Passaic.....    |              |     |     | T   |     |   |   |   |   | .36 | .01 |    |     | .66  | .09 |     |     |     | .05 | T   |    |    |     | .06 |     |     | T   | .08 |     | 1.31 |      |       |
| Chatham   .....                            | do.....         |              | T   |     |     |     |   |   |   |   | .62 |     |    |     | .96  | .23 |     | T   |     | .21 |     |    |    | *   | .07 | T   |     | .04 | .11 |     | 2.24 |      |       |
| Elizabeth.....                             | Coast.....      |              | T   |     | .01 |     |   |   |   |   | *   | .63 | T  |     | .87  |     | .02 |     | *   | .15 |     |    |    | *   | .05 |     | *   | .07 | .47 |     | 2.27 |      |       |
| Flemington.....                            | Raritan.....    |              | .21 |     |     |     |   |   |   |   | .07 | .31 | T  |     | 1.38 |     |     | .03 | .16 |     |     |    |    | .02 | T   |     | .18 | .06 | .38 |     | 2.80 |      |       |
| Highwood.....                              | Hackensack..... |              | T   |     |     |     |   |   |   |   | .50 | .20 |    |     | .65  |     |     |     | .10 | T   |     |    |    | .02 | .03 |     |     | T   | .33 |     | 1.83 |      |       |
| Jersey City.....                           | Coast.....      |              | T   |     | T   | T   |   |   |   |   | .38 | .09 |    |     | .65  | T   | T   |     | .16 | T   |     |    |    | .04 |     |     | .04 | .04 | .55 |     | 1.95 |      |       |
| Lambertville.....                          | Delaware.....   |              | .26 |     |     |     |   |   |   |   | .28 | .24 |    |     | 1.09 | .07 | .04 | .05 | .07 |     | .21 |    |    |     | .04 | .33 | .04 | .36 |     |     | 2.80 |      |       |
| Little Falls.    .....                     | Passaic.....    |              |     | T   |     | .03 |   |   |   |   | .87 |     |    |     | .73  | .07 |     |     | .02 | .11 |     |    |    |     | .05 |     |     |     | .18 |     | 2.06 |      |       |
| New Brunswick.....                         | Raritan.....    |              | .10 |     |     |     |   |   |   |   | .18 | .61 |    |     | 1.06 |     |     | .03 | .03 |     |     |    |    | T   | .04 |     | .19 | .10 | .46 |     | 2.80 |      |       |
| New Milford.**.....                        | Hackensack..... |              |     |     |     |     |   |   |   |   | .58 | .05 |    |     | .14  | .42 |     |     | .11 |     |     |    |    |     | .04 |     |     |     | .40 |     | 1.74 |      |       |
| Paterson.....                              | Passaic.....    |              | T   |     |     | T   |   |   |   |   | .12 | .65 |    |     | .78  |     |     |     |     | .12 |     |    |    | T   | .04 |     |     |     | .48 |     | 2.19 |      |       |
| Plainfield.....                            | Raritan.....    |              |     | .01 |     |     |   |   |   |   | .39 | .24 |    |     | .70  |     | .02 |     | .12 |     |     |    |    |     | .03 |     |     | .08 |     | .37 |      | 1.96 |       |
| Somerville.....                            | Raritan.....    |              | .22 |     |     |     |   |   |   |   | .45 |     |    |     | 1.14 |     |     | .04 | .05 | .04 |     |    |    |     | .04 |     |     | .17 | .08 | .32 |      | 2.55 |       |
| South Orange.....                          | Rahway.....     |              | T   |     |     | T   |   |   |   |   | .66 | T   | T  |     | .07  | .75 |     | .02 |     | .13 | T   |    |    |     | .03 |     |     | .06 | T   | .42 |      | 2.14 |       |
| Woodcliff Lake**.....                      | Hackensack..... |              |     |     |     |     |   |   |   |   | .50 |     |    |     | .14  | .41 |     |     | .09 |     |     |    |    |     |     |     |     |     | .35 |     | 1.49 |      |       |
| New York, N. Y***.....                     | Coast.....      |              | T   |     | T   | T   |   |   |   |   | .46 | T   |    |     | .26  | .31 | T   | T   |     | .12 | T   |    |    |     | .04 |     |     | .06 | T   | .48 |      | 1.73 |       |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Belleplain.....                            | Tuckahoe.....   |              | .20 |     |     |     |   |   |   |   | .44 | .15 |    |     | .03  | .08 | .13 | .41 | .47 | .07 |     |    |    |     | .04 |     | .27 |     | *   | .43 | .31  | 3.03 |       |
| Bridgeton.....                             | Coast.....      |              |     |     |     |     |   |   |   |   | *   | .66 |    |     | .12  | .01 |     | .30 | T   | .20 |     |    |    |     | .20 |     | *   | .65 | .40 |     | 2.69 |      |       |
| Burlington.....                            | Delaware.....   |              | .15 | T   |     |     |   |   |   |   | \$  | \$  |    |     | \$   |     |     |     |     |     |     |    |    |     | \$  |     | \$  | \$  | \$  |     | \$   |      |       |
| Clayton.....                               | Delaware.....   |              | .20 |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Hammonton.....                             | Mullica.....    |              |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Hightstown.....                            | Raritan.....    |              |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Imlaystown.....                            | Delaware.....   |              | .17 |     |     |     |   |   |   |   | .03 | .62 |    |     | .29  | .17 |     | .22 | .05 | .08 |     |    |    |     |     | .08 |     | .24 | .32 | .30 |      | 2.57 |       |
| Indian Mills.....                          | Mullica.....    |              | .35 |     |     |     |   |   |   |   | .75 |     |    |     | .20  |     | .20 | .40 | .13 |     |     |    |    |     |     | .32 |     | .35 | .30 | .35 |      | 3.35 |       |
| Lakewood.....                              | Metedeconk..... |              | .05 |     |     |     |   |   |   |   | .35 | .30 |    |     | .30  | .05 | .30 | .12 |     |     |     |    |    |     | T   | .24 |     | .30 | .45 | .48 |      | 2.94 |       |
| Moorestown.....                            | Delaware.....   |              | .17 |     |     |     |   |   |   |   | .47 |     |    |     | .13  | .32 |     | .23 |     |     |     |    |    | .16 |     |     | .68 | *   | .37 |     | 2.53 |      |       |
| Northfield.....                            | Coast.....      |              | .16 |     |     |     |   |   |   |   | .37 | .02 |    |     | .01  | .11 | .16 | .34 | .03 | .23 |     |    |    | .30 |     | .26 |     | .15 | .26 | .46 |      | 2.86 |       |
| Pleasantville   .....                      | Coast.....      |              | .08 | .10 |     |     |   |   |   |   | .52 |     |    |     | .08  | .12 |     | .50 |     | .45 |     |    |    | .04 |     | .14 |     | .16 | .15 | .38 |      | 2.18 |       |
| Runyon.....                                | Coast.....      |              | .11 |     |     |     |   |   |   |   | .05 | .61 |    |     | .56  |     | .08 |     | .04 |     |     |    |    |     |     | .04 |     | .16 | .02 | .30 |      | 2.35 |       |
| Trenton***.....                            | Delaware.....   |              | T   |     |     |     |   |   |   |   | .52 |     |    |     | .16  | .24 |     | .25 | .01 | .12 |     |    |    |     | .07 | T   | .56 | .02 | .30 |     |      | 2.54 |       |
| Tuckerton.....                             | Coast.....      |              | .07 |     |     |     |   |   |   |   | .35 |     |    |     | .06  | .12 | .55 | .03 | .11 |     |     |    |    |     |     |     |     | .50 | .35 | .40 |      | 2.78 |       |
| Vineland.....                              | Maurice.....    |              | *   |     |     |     |   |   |   |   | .56 | .15 |    |     | *    | .71 | .11 |     | .24 |     |     |    |    | .08 |     | .32 |     | *   | *   | .61 |      | 2.43 |       |
| Phila., Pa***.....                         | Delaware.....   |              | .03 | .18 |     |     |   |   |   |   | .37 |     |    |     | .01  | .19 |     | .27 |     | .16 | T   |    |    |     | .05 |     | .20 | .01 | .57 | .05 | .34  |      | 2.43  |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |     |   |   |   |   |     |     |    |     |      |     |     |     |     |     |     |    |    |     |     |     |     |     |     |     |      |      |       |
| Asbury Park.....                           | Coast.....      |              |     |     |     |     |   |   |   |   | .42 |     |    |     | .74  |     | .19 |     | .23 |     |     |    |    |     | .07 |     |     | .36 | .33 | .46 |      | 2.80 |       |
| Atlantic City***.....                      | do.....         |              | .12 |     |     |     |   |   |   |   | .36 | T   |    |     | .31  |     | .51 |     | .18 | .01 |     |    |    | .05 |     | .22 |     | .40 | .16 | .36 |      | 2.68 |       |
| Cape May City.....                         | do.....         |              | .30 | .03 |     |     |   |   |   |   | .52 | .03 |    |     | .33  | .01 | .28 | .45 | .39 | .01 |     |    |    |     | .08 |     | .19 | .29 | .35 |     | 3.26 |      |       |
| Long Branch**.....                         | do.....         |              | T   |     |     |     |   |   |   |   | .72 | .01 |    |     | .20  | .78 | .18 |     | .06 |     |     |    |    |     | .08 |     | .44 | .04 | .60 |     | 3.11 |      |       |
| Sandy Hook***.....                         | do.....         |              | T   |     |     |     |   |   |   |   | .49 | .02 |    |     | 1.25 | .28 |     | .05 |     | .08 | T   |    |    |     | .04 |     | .17 | T   | .31 |     | 2.69 |      |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                                |                                        | Sun-<br>shine                      |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-----------------------------------------|----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                         |                                        |                                    |
|                       |              |         |      |        |      |                 |                |           |      |                                         |                                        |                                    |
| Atlantic City.....    | 30.02        | 30.56   | 21   | 29.58  | 19   | 18.6            | 53             | ne.       | 29   | 73                                      | 77                                     | 66                                 |
| Cape May City.....    | 30.06        | 30.56   | 21   | 29.66  | 30   | 9.1             | 30             | w.        | 15   | 77                                      | 81                                     | .....                              |
| Long Branch.....      |              |         |      |        |      |                 | 48             | e.        | 29   |                                         |                                        | .....                              |
| New York, N. Y.....   | 30.02        | 30.55   | 21   | 29.62  | 30   | 16.0            | 72             | nw.       | 15   | 64                                      | 61                                     | 74                                 |
| Philadelphia, Pa..... | 30.04        | 30.59   | 21   | 29.62  | 30   | 10.1            | 27             | n.        | 8    | 67                                      | 63                                     | 65                                 |
| Sandy Hook.....       | 30.02        | 30.56   | 21   | 29.60  | 30   | 14.6            | 47             | nw.       | 13   | 69                                      | 67                                     | 71                                 |
| Trenton.....          | 30.03        | 30.57   | 21   | 29.58  | 19   | 10.6            | 34             | ne.       | 20   | 69                                      | 67                                     | 61                                 |



## Daily Temperatures for April, 1925

| Stations                                    | 1          | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29                | 30                | 31                | Mean              |  |
|---------------------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|-------------------|--|
| <i>The Highlands and Kittatinny Valley.</i> |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |                   |  |
| Belvidere.....                              | Maximum... | 48 | 53 | 63 | 64 | 58 | 63 | 66 | 68 | 65 | 56 | 69 | 66 | 68 | 65 | 75 | 61 | 60 | 73 | 63 | 61 | 69 | 88 | 82 | 62 | 84 | 81 | 68 | 62                | 57                | 66.1 <sup>a</sup> |                   |  |
|                                             | Minimum... | 35 | 33 | 29 | 31 | 30 | 25 | 27 | 35 | 28 | 40 | 39 | 45 | 40 | 38 | 41 | 32 | 28 | 39 | 36 | 23 | 29 | 45 | 55 | 47 | 54 | 53 | 45 | 42                | 39                | 37.3 <sup>a</sup> |                   |  |
| Charlotteburg.....                          | Maximum... | 44 | 55 | 59 | 58 | 60 | 58 | 63 | 59 | 62 | 59 | 59 | 64 | 59 | 60 | 76 | 69 | 59 | 67 | 56 | 57 | 80 | 70 | 62 | 80 | 72 | 68 | 59 | 56                | 62.6 <sup>a</sup> |                   |                   |  |
|                                             | Minimum... | 36 | 33 | 27 | 36 | 24 | 20 | 19 | 39 | 24 | 41 | 39 | 39 | 37 | 38 | 46 | 31 | 18 | 38 | 37 | 31 | 25 | 20 | 39 | 50 | 38 | 49 | 52 | 40                | 38                | 37                | 34.5              |  |
| Dover.....                                  | Maximum... | 46 | 55 | 60 | 62 | 53 | 59 | 64 | 60 | 61 | 61 | 65 | 58 | 60 | 57 | 75 | 56 | 59 | 68 | 55 | 47 | 61 | 66 | 83 | 73 | 58 | 82 | 72 | 58                | 62                | 57                | 61.8              |  |
|                                             | Minimum... | 36 | 32 | 27 | 28 | 28 | 20 | 21 | 31 | 24 | 37 | 35 | 43 | 38 | 38 | 47 | 25 | 21 | 30 | 34 | 20 | 24 | 40 | 52 | 41 | 54 | 48 | 37 | 38                | 39                | 34.1              |                   |  |
| Layton.....                                 | Maximum... | 45 | 54 | 62 | 62 | 56 | 58 | 65 | 64 | 62 | 58 | 66 | 69 | 69 | 69 | 63 | 58 | 73 | 66 | 45 | 59 | 66 | 84 | 82 | 68 | 83 | 83 | 83 | 83                | 83                | 83                | 63.8 <sup>a</sup> |  |
|                                             | Minimum... | 35 | 32 | 35 | 34 | 29 | 24 | 31 | 35 | 29 | 40 | 39 | 43 | 37 | 36 | 35 | 29 | 31 | 40 | 31 | 24 | 31 | 45 | 52 | 45 | 54 | 41 | 42 | 38                | 39                | 36.3 <sup>b</sup> |                   |  |
| Phillipsburg.....                           | Maximum... | 48 | 51 | 61 | 64 | 63 | 62 | 65 | 70 | 69 | 62 | 66 | 64 | 65 | 66 | 75 | 63 | 60 | 69 | 61 | 52 | 57 | 31 | 52 | 48 | 52 | 48 | 52 | 46                | 45                | 41                | 63.7              |  |
|                                             | Minimum... | 37 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36                | 36                | 36                | 63.7              |  |
| Sussex.....                                 | Maximum... | 49 | 57 | 61 | 62 | 57 | 60 | 64 | 62 | 63 | 57 | 66 | 63 | 62 | 60 | 74 | 71 | 58 | 68 | 64 | 44 | 58 | 67 | 83 | 78 | 62 | 81 | 74 | 67                | 63                | 55                | 63.7              |  |
|                                             | Minimum... | 37 | 35 | 29 | 30 | 29 | 21 | 27 | 29 | 26 | 39 | 36 | 43 | 39 | 36 | 48 | 39 | 23 | 33 | 37 | 35 | 21 | 26 | 44 | 51 | 40 | 53 | 49 | 38                | 38                | 40                | 35.7              |  |
| <i>The Red Sandstone Plain.</i>             |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |                   |  |
| Bergen Point.....                           | Maximum... | 58 | 53 | 59 | 63 | 55 | 55 | 61 | 64 | 56 | 64 | 62 | 62 | 65 | 57 | 77 | 67 | 57 | 55 | 50 | 58 | 67 | 83 | 75 | 78 | 73 | 65 | 49 | 62.5 <sup>a</sup> |                   |                   |                   |  |
|                                             | Minimum... | 38 | 42 | 39 | 39 | 39 | 33 | 34 | 40 | 38 | 44 | 42 | 44 | 42 | 40 | 45 | 40 | 39 | 39 | 42 | 38 | 33 | 38 | 39 | 49 | 49 | 52 | 40 | 45                | 40                | 40.8 <sup>b</sup> |                   |  |
| Boonton§§.....                              | Maximum... | 50 | 57 | 61 | 62 | 54 | 59 | 61 | 63 | 60 | 60 | 64 | 61 | 62 | 57 | 73 | 57 | 59 | 70 | 50 | 45 | 61 | 64 | 83 | 65 | 59 | 82 | 74 | 58                | 62                | 44                | 61.2              |  |
|                                             | Minimum... | 37 | 36 | 31 | 37 | 31 | 23 | 24 | 35 | 26 | 47 | 40 | 43 | 41 | 30 | 44 | 38 | 25 | 35 | 39 | 36 | 30 | 26 | 43 | 54 | 41 | 49 | 53 | 39                | 38                | 39                | 37.0              |  |
| Elizabeth.....                              | Maximum... | 55 | 55 | 61 | 67 | 60 | 53 | 65 | 66 | 65 | 65 | 64 | 64 | 60 | 59 | 79 | 62 | 63 | 70 | 66 | 52 | 61 | 68 | 85 | 82 | 64 | 81 | 79 | 74                | 61                | 57                | 65.4              |  |
|                                             | Minimum... | 39 | 41 | 33 | 37 | 35 | 30 | 29 | 39 | 32 | 41 | 43 | 43 | 44 | 36 | 51 | 35 | 31 | 39 | 45 | 39 | 30 | 32 | 44 | 55 | 47 | 53 | 52 | 46                | 43                | 41                | 40.2              |  |
| Flemington.....                             | Maximum... | 50 | 53 | 61 | 66 | 58 | 60 | 65 | 66 | 63 | 64 | 68 | 65 | 66 | 62 | 77 | 63 | 59 | 72 | 71 | 51 | 62 | 67 | 85 | 85 | 59 | 82 | 69 | 59                | 52                | 59                | 65.4              |  |
|                                             | Minimum... | 36 | 36 | 34 | 35 | 34 | 29 | 27 | 40 | 28 | 38 | 43 | 41 | 42 | 33 | 52 | 36 | 30 | 39 | 43 | 39 | 28 | 30 | 42 | 58 | 44 | 54 | 55 | 45                | 41                | 41                | 39.1              |  |
| Highwood.....                               | Maximum... | 52 | 56 | 59 | 65 | 51 | 57 | 63 | 64 | 60 | 64 | 64 | 61 | 55 | 58 | 77 | 58 | 59 | 71 | 52 | 46 | 60 | 67 | 85 | 72 | 55 | 81 | 77 | 62                | 60                | 47                | 61.9              |  |
|                                             | Minimum... | 37 | 40 | 31 | 32 | 34 | 26 | 27 | 35 | 29 | 41 | 42 | 42 | 43 | 41 | 50 | 32 | 28 | 39 | 44 | 35 | 27 | 29 | 44 | 52 | 46 | 51 | 50 | 40                | 42                | 43                | 38.4              |  |
| Jersey City.....                            | Maximum... | 52 | 56 | 59 | 64 | 54 | 57 | 61 | 63 | 59 | 63 | 63 | 61 | 60 | 58 | 77 | 61 | 57 | 69 | 57 | 45 | 59 | 65 | 84 | 74 | 60 | 81 | 77 | 59                | 59                | 47                | 62.0              |  |
|                                             | Minimum... | 39 | 42 | 40 | 43 | 36 | 35 | 37 | 44 | 40 | 44 | 45 | 44 | 41 | 40 | 44 | 41 | 40 | 41 | 43 | 35 | 32 | 42 | 46 | 49 | 47 | 52 | 54 | 45                | 45                | 42                | 43.3              |  |
| Lambertville.....                           | Maximum... | 47 | 50 | 60 | 62 | 54 | 56 | 63 | 63 | 61 | 64 | 65 | 61 | 62 | 61 | 76 | 58 | 60 | 67 | 50 | 57 | 67 | 82 | 71 | 60 | 81 | 75 | 55 | 48                | 41                | 61.8 <sup>a</sup> |                   |  |
|                                             | Minimum... | 36 | 36 | 36 | 38 | 34 | 28 | 31 | 42 | 30 | 43 | 44 | 44 | 42 | 35 | 53 | 36 | 34 | 37 | 48 | 35 | 27 | 34 | 43 | 53 | 44 | 57 | 54 | 45                | 42                | 40                | 40.0              |  |
| Little Falls§§.....                         | Maximum... | 47 | 57 | 57 | 60 | 50 | 60 | 56 | 63 | 54 | 62 | 64 | 66 | 60 | 62 | 77 | 58 | 58 | 75 | 50 | 44 | 61 | 66 | 85 | 64 | 70 | 82 | 76 | 58                | 58                | 54                | 61.8              |  |
|                                             | Minimum... | 37 | 37 | 31 | 33 | 33 | 26 | 27 | 36 | 30 | 40 | 42 | 44 | 43 | 38 | 49 | 36 | 28 | 37 | 40 | 37 | 27 | 30 | 46 | 55 | 43 | 51 | 50 | 42                | 40                | 38.2              |                   |  |
| New Brunswick.....                          | Maximum... | 51 | 51 | 59 | 63 | 60 | 56 | 62 | 64 | 62 | 66 | 62 | 61 | 60 | 64 | 78 | 61 | 61 | 63 | 67 | 54 | 57 | 66 | 84 | 76 | 56 | 80 | 77 | 73                | 55                | 50                | 39.7              |  |
|                                             | Minimum... | 38 | 39 | 32 | 37 | 30 | 26 | 37 | 31 | 41 | 45 | 43 | 43 | 34 | 51 | 35 | 33 | 39 | 45 | 38 | 30 | 31 | 42 | 54 | 47 | 52 | 55 | 45 | 42                | 40                | 39.7              |                   |  |
| Paterson.....                               | Maximum... | 54 | 58 | 61 | 67 | 60 | 61 | 67 | 69 | 63 | 62 | 66 | 65 | 60 | 59 | 79 | 60 | 62 | 72 | 59 | 50 | 61 | 75 | 88 | 80 | 55 | 84 | 81 | 72                | 62                | 54                | 65.5              |  |
|                                             | Minimum... | 38 | 40 | 35 | 40 | 36 | 29 | 32 | 42 | 34 | 43 | 43 | 43 | 38 | 51 | 38 | 34 | 39 | 45 | 38 | 30 | 37 | 45 | 55 | 46 | 53 | 58 | 47 | 44                | 42                | 41.6              |                   |  |
| Plainfield.....                             | Maximum... | 52 | 56 | 61 | 67 | 54 | 60 | 65 | 66 | 62 | 63 | 64 | 60 | 63 | 59 | 78 | 60 | 58 | 72 | 58 | 45 | 62 | 67 | 84 | 74 | 61 | 81 | 78 | 60                | 60                | 47                | 63.2              |  |
|                                             | Minimum... | 38 | 40 | 31 | 39 | 36 | 24 | 25 | 33 | 28 | 39 | 40 | 48 | 41 | 31 | 40 | 33 | 27 | 39 | 42 | 35 | 30 | 29 | 41 | 54 | 47 | 46 | 52 | 43                | 44                | 42                | 37.9              |  |
| Somerville.....                             | Maximum... | 51 | 54 | 62 | 66 | 60 | 59 | 66 | 64 | 62 | 65 | 64 | 66 | 65 | 62 | 79 | 61 | 62 | 72 | 68 | 55 | 59 | 66 | 85 | 76 | 58 | 83 | 80 | 74                | 60                | 52                | 65.2              |  |
|                                             | Minimum... | 39 | 38 | 32 | 34 | 34 | 22 | 23 | 27 | 38 | 36 | 38 | 43 | 31 | 52 | 31 | 27 | 37 | 41 | 39 | 30 | 28 | 39 | 57 | 45 | 51 | 52 | 44 | 42                | 41                | 37.6 <sup>a</sup> |                   |  |
| South Orange.....                           | Maximum... | 50 | 53 | 58 | 63 | 53 | 56 | 64 | 63 | 63 | 63 | 62 | 62 | 59 | 58 | 76 | 57 | 59 | 68 | 50 | 45 | 58 | 65 | 84 | 69 | 60 | 77 | 74 | 57                | 58                | 43                | 60.9              |  |
|                                             | Minimum... | 39 | 38 | 38 | 41 | 36 | 29 | 33 | 38 | 38 | 42 | 45 | 45 | 41 | 37 | 41 | 37 | 33 | 40 | 39 | 32 | 31 | 38 | 44 | 49 | 47 | 50 | 52 | 46                | 43                | 40                | 40.4              |  |
| New York, N. Y.....                         | Maximum... | 52 | 55 | 58 | 62 | 53 | 58 | 61 | 64 | 63 | 62 | 61 | 56 | 56 | 74 | 57 | 54 | 65 | 55 | 44 | 57 | 62 | 83 | 72 | 58 | 79 | 74 | 57 | 58                | 46                | 40                | 60.0              |  |
|                                             | Minimum... | 39 | 42 | 41 | 43 | 36 | 35 | 38 | 45 | 41 | 45 | 45 | 44 | 41 | 41 | 45 | 41 | 40 | 41 | 43 | 33 | 32 | 43 | 47 | 49 | 53 | 45 | 45 | 41                | 41                | 42.5              |                   |  |
| <i>The Southern Interior.</i>               |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |                   |  |
| Belleplain.....                             | Maximum... | 50 | 48 | 63 | 66 | 56 | 53 | 63 | 69 | 69 | 73 | 64 | 70 | 66 | 69 | 81 | 69 | 58 | 69 | 71 | 61 | 56 | 64 | 80 | 74 | 73 | 83 | 81 | 71                | 49                | 51                | 65.6              |  |
|                                             | Minimum... | 39 | 37 | 34 | 33 | 25 | 17 | 35 | 29 | 42 | 48 | 43 | 44 | 34 | 54 | 32 | 29 | 42 | 41 | 41 | 27 | 27 | 43 | 55 | 50 | 56 | 56 | 44 | 43                | 41                | 39.3              |                   |  |
| Bridgeton.....                              | Maximum... | 52 | 50 | 63 | 66 | 58 | 66 | 68 | 67 | 70 | 68 | 69 | 67 | 70 | 80 | 75 | 59 | 70 | 69 | 70 | 59 | 70 | 85 | 86 | 69 | 82 | 83 | 75 | 52                | 52                | 67.8              |                   |  |
|                                             | Minimum... | 36 | 35 | 34 | 37 | 38 | 30 | 26 | 37 | 32 | 45 | 40 | 43 | 35 | 36 | 53 | 36 | 32 | 38 | 49 | 39 | 28 | 30 | 46 | 53 | 55 | 48 | 42 | 40                | 39.0 <sup>b</sup> |                   |                   |  |
| Burlington.....                             | Maximum... | 51 | 46 | 60 | 65 | 53 | 63 | 66 | 63 | 71 | 68 | 67 | 66 | 69 | 80 | 70 | 69 | 69 |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |                   |  |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXX.

MAY, 1925.

No. 5

### GENERAL SUMMARY.

The month of May was somewhat remarkable for its persistent deficiency of warmth and rain and its slight excess of sunshine. There were but six days which were above normal in temperature, while there were general late frosts, and a few occurrences of snow and sleet. The greater part of the rain, which was subnormal in volume and frequency, occurred with four scattered thundershowers.

A feature of the month's weather was the sudden rise of temperature to well up in the 90's on the 23d, and which was followed by severe reactionary storms late in the afternoon. A very cold layer of air overrunning the excessive heat on the ground afforded the unstabling influences which generated the violent readjustments. Damaging wind and hail occurred very generally, and there was considerable loss inflicted upon crops, insecure structures and glass roofs. Flood tides whipped by the wind also caused injury in some localities.

Storm warnings were displayed only on the 17th and 25th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 57.7°, which was 2.6° below normal. The highest temperature was 99° at Indian Mills on the 23d, and the lowest, 23°, at Runyon on the 8th. The greatest daily range of temperature was 51° at Runyon on the 21st. The highest monthly mean temperature was 60.1° at Vineland, and the lowest, 53.6° at Charlotteburg.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +1.3°; Red Sandstone Plain, +1.2°; Southern Interior, +2.3°; Sea Coast, +2.7°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 2.86 inches, which was 0.93 inch below normal. A trace of snow was recorded at two stations in the State.

The greatest monthly precipitation was 4.94 inches, at Belvidere, and the least, 0.49 inch at Cape May City. The greatest amount of precipitation in any 24 consecutive hours was 2.04 inches at Dover on the 23d and 24th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 8, or 3 less than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, -0.66 inch; Red Sandstone Plain, -2.51 inches; Southern Interior, -4.44 inches; Sea Coast, -5.83 inches.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 11 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 54 miles per hour from the north at Sandy Hook on the 23d.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was

13, which was normal; partly cloudy, 11, or 2 more than normal; cloudy, 7, or 2 less than normal. The per cent of possible sunshine was 66/100, which was 6 per cent above normal.

JUL 3 1925

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.95 inches, which was 0.04 inch below the normal. The highest reading was 30.38 inches at Cape May City on the 16th, and the lowest, 29.35 inches at Ridgefield on the 23d.

The mean stage of the Delaware River at Phillipsburg was 3.2 feet, and the highest, 4.5 feet on the 13th. At Trenton the mean daily stage was 1.9 feet, which was 0.7 foot below the normal; the highest stage was 2.7 feet on the 15th.

Killing frosts were general on the 8th and 9th, and widely scattered occurrences on the 19th and 27th. A moderate hail-storm occurred in portions of Essex, Passaic and south Bergen counties on the 23d. The stones measured up to one and one-quarter inches in diameter but no estimate of damage was reported. Another hail storm crossed the State from Gloucester county, across Camden and Burlington to Ocean county on the 29th. In Gloucester county some of the hail was as large as hen eggs and smaller to the eastward down to the size of rice grains at the shore. In Burlington county hail for one hour accumulated and the accumulations remained on the ground in sheltered places for three days. Some fields and cranberry bogs were almost totally damaged. Dense fog occurred on the 10th and 13th. Thunderstorms were reported on the 1st, 5th, 10th, 11th, 15th, 17th, 21st, 22d, 23d, 24th and 29th. Solar halos were observed on the 3d, 4th, 7th, 12th, 13th, 14th and 18th; unar halos on the 3d, 9th and 30th.

### COMPARATIVE DATA FOR MAY

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 57.3        | 90      | 29     | 2.74          | 5.20     | 1.18  | .....      | .....         | .....  | .....                  |
| 1886..... | 58.8        | 87      | 36     | 6.07          | 8.46     | 4.15  | .....      | .....         | .....  | .....                  |
| 1887..... | 63.3        | 94      | 35     | 1.37          | 3.82     | 0.08  | .....      | .....         | 9      | 6                      |
| 1888..... | 58.6        | 90      | 26     | 4.92          | 6.48     | 3.00  | .....      | .....         | 18     | 16                     |
| 1889..... | 62.3        | 94      | 32     | 4.09          | 6.60     | 2.43  | .....      | .....         | 11     | 12                     |
| 1890..... | 60.7        | 87      | 33     | 4.24          | 7.17     | 2.60  | .....      | .....         | 11     | 12                     |
| 1891..... | 59.5        | 93      | 28     | 2.97          | 5.39     | 1.78  | 9          | 11            | 11     | 9                      |
| 1892..... | 60.1        | 90      | 30     | 5.04          | 6.52     | 3.26  | 8          | 13            | 10     | 13                     |
| 1893..... | 59.4        | 95      | 29     | 4.07          | 6.38     | 2.55  | 13         | 8             | 10     | 10                     |
| 1894..... | 61.4        | 93      | 30     | 7.72          | 15.61    | 3.57  | 11         | 9             | 11     | 13                     |
| 1895..... | 60.9        | 102     | 28     | 2.85          | 3.95     | 1.66  | 12         | 12            | 7      | 8                      |
| 1896..... | 65.3        | 98      | 29     | 3.21          | 4.54     | 1.62  | 10         | 12            | 9      | 10                     |
| 1897..... | 60.6        | 87      | 29     | 5.68          | 9.11     | 1.71  | 11         | 12            | 8      | 12                     |
| 1898..... | 58.5        | 93      | 29     | 7.00          | 9.26     | 3.92  | 8          | 8             | 15     | 18                     |
| 1899..... | 61.1        | 94      | 29     | 1.92          | 3.15     | 1.15  | 12         | 12            | 7      | 9                      |
| 1900..... | 60.9        | 98      | 26     | 4.71          | 7.33     | 2.53  | 13         | 7             | 11     | 10                     |
| 1901..... | 58.6        | 90      | 29     | 5.60          | 8.13     | 3.10  | 9          | 9             | 13     | 16                     |
| 1902..... | 60.3        | 95      | 29     | 2.04          | 4.63     | 1.11  | 15         | 11            | 5      | 7                      |
| 1903..... | 62.7        | 98      | 21     | 0.69          | 1.82     | 0.08  | 16         | 10            | 5      | 4                      |
| 1904..... | 62.8        | 97      | 31     | 2.60          | 6.69     | 1.01  | 17         | 9             | 5      | 8                      |
| 1905..... | 61.4        | 89      | 22     | 1.71          | 3.94     | 0.42  | 12         | 11            | 8      | 8                      |
| 1906..... | 61.0        | 94      | 24     | 4.21          | 6.28     | 2.37  | 16         | 8             | 7      | 10                     |
| 1907..... | 55.4        | 91      | 22     | 5.05          | 8.09     | 2.51  | 12         | 9             | 10     | 12                     |
| 1908..... | 61.6        | 95      | 29     | 7.10          | 9.99     | 4.39  | 9          | 10            | 12     | 13                     |
| 1909..... | 60.0        | 91      | 27     | 2.30          | 4.84     | 0.79  | 10         | 11            | 10     | 9                      |
| 1910..... | 60.0        | 94      | 27     | 2.54          | 4.25     | 1.48  | 10         | 10            | 11     | 12                     |
| 1911..... | 64.5        | 99      | 22     | 1.37          | 3.84     | 0.31  | 14         | 11            | 6      | 7                      |
| 1912..... | 62.0        | 92      | 31     | 4.09          | 6.47     | 2.79  | 11         | 11            | 9      | 11                     |
| 1913..... | 60.3        | 94      | 25     | 3.45          | 4.86     | 2.53  | 15         | 7             | 9      | 9                      |
| 1914..... | 63.1        | 98      | 30     | 2.93          | 5.09     | 0.95  | 14         | 9             | 7      | 10                     |
| 1915..... | 58.1        | 88      | 30     | 3.82          | 6.15     | 2.00  | 13         | 7             | 11     | 13                     |
| 1916..... | 61.1        | 90      | 33     | 3.48          | 5.27     | 2.14  | 12         | 11            | 8      | 12                     |
| 1917..... | 54.0        | 90      | 25     | 3.83          | 6.83     | 2.08  | 10         | 10            | 11     | 11                     |
| 1918..... | 64.6        | 93      | 31     | 4.94          | 7.59     | 2.74  | 14         | 10            | 7      | 12                     |
| 1919..... | 60.9        | 95      | 31     | 4.98          | 7.68     | 3.06  | 14         | 6             | 11     | 12                     |
| 1920..... | 57.4        | 89      | 26     | 3.00          | 5.23     | 1.61  | 15         | 8             | 8      | 10                     |
| 1921..... | 60.2        | 96      | 32     | 4.17          | 6.44     | 2.60  | 14         | 7             | 10     | 10                     |
| 1922..... | 63.0        | 90      | 23     | 3.84          | 7.55     | 1.16  | 18         | 6             | 7      | 8                      |
| 1923..... | 59.1        | 90      | 25     | 1.66          | 3.62     | 0.67  | 20         | 6             | 5      | 6                      |
| 1924..... | 56.8        | 87      | 25     | 5.69          | 7.94     | 3.36  | 12         | 7             | 12     | 17                     |
| 1925..... | 57.7        | 99      | 23     | 2.86          | 4.94     | 0.49  | 13         | 11            | 7      | 8                      |



## Climatological Data for May, 1925

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                                  |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|----------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation of 1/16 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                                  |       |            |                              |           |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 34                      | 57.6                         | -3.1                      | 96      | 23    | 31     | 8     | 43                       | 4.94  | +1.11                     | 1.95                 | 0                         | 7                                | 18    | 9          | 4                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 33                      | 53.6 <sup>a</sup>            | -3.9                      | 90      | 23    | 25     | 8     | 45                       | 3.38  | -0.82                     | .....                | 0                         | 10                               | 16    | 8          | 7                            | w.        |                                                                                                                          |
| Culvers Lake††.....                  | Sussex.....     | 848             | 24                      | .....                        | .....                     | .....   | ..... | 31     | 3†    | .....                    | 3.97  | +0.34                     | 1.15                 | T.                        | 14                               | 14    | 11         | 6                            | .....     |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 41                      | 56.3                         | -2.3                      | 93      | 23    | 30     | 8     | 38                       | 4.09  | +0.15                     | 2.04                 | 0                         | 9                                | 3     | 22         | 6                            | .....     |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 24                      | 54.3                         | -3.7                      | 91      | 23    | 25     | 8     | 43                       | 4.03  | +0.78                     | 1.02                 | T.                        | 10                               | 15    | 4          | 12                           | sw.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 42                      | 57.2 <sup>b</sup>            | -2.3                      | 96      | 23    | 30     | 9     | 47                       | 3.44  | -0.49                     | 1.30                 | 0                         | 7                                | 15    | 7          | 9                            | nw.       |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 42                      | 58.8 <sup>f</sup>            | -2.5                      | 96      | 23    | 32     | 8     | .....                    | 2.52  | -1.34                     | 1.12                 | 0                         | 8                                | 12    | 10         | 9                            | .....     |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 56.0                         | -3.9                      | 91      | 23    | 29     | 8†    | 41                       | 4.63  | +0.91                     | 1.82                 | 0                         | 12                               | 9     | 13         | 9                            | w.        |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 56.2                         | -3.1                      | 96      | 23    | 25     | 8     | 47                       | 3.88  | +0.08                     | 2.04                 | 0                         | 10                               | 13    | 10         | 8                            | w.        |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                                  |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                  | Hudson.....     | 37              | 28                      | 59.0                         | -1.3                      | 94      | 23    | 39     | 3†    | 37                       | 2.49  | -1.47                     | 1.05                 | 0                         | 7                                | 2     | 25         | 4                            | se.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                         | Morris.....     | 400             | 35                      | 54.8                         | -4.4                      | 82      | 23†   | 29     | 8     | 40                       | 4.23  | +0.17                     | 1.67                 | 0                         | 9                                | 23    | 2          | 6                            | sw.       |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 21                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.20  | -1.30                     | 0.69                 | 0                         | 7                                | 24    | 4          | 3                            | .....     |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 46                      | 58.8                         | -3.2                      | 96      | 23    | 35     | 3†    | 44                       | 2.66  | -1.16                     | 0.77                 | 0                         | 9                                | 6     | 22         | 3                            | sw.       |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 39                      | 58.0                         | -3.3                      | 93      | 23    | 31     | 8     | 45                       | 2.93  | -1.09                     | 1.12                 | 0                         | 8                                | 21    | 5          | 5                            | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                      | Bergen.....     | 90              | 37                      | 56.8                         | -2.5                      | 87      | 23    | 32     | 8     | 39                       | 4.06  | +0.23                     | 1.43                 | 0                         | 8                                | 7     | 15         | 9                            | sw.       |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 27                      | 59.8                         | -1.8                      | 96      | 23    | 40     | 25    | 38                       | 2.83  | -0.75                     | 0.82                 | 0                         | 6                                | 5     | 21         | 5                            | s.        |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 38                      | 58.1                         | -3.5                      | 92      | 23    | 35     | 8     | 37                       | 2.88  | -1.14                     | 1.16                 | 0                         | 11                               | 18    | 5          | 8                            | sw.       |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 22                      | 56.2                         | -3.5                      | 92      | 23    | 30     | 8     | 42                       | 3.69  | -0.10                     | 1.23                 | 0                         | 9                                | 8     | 18         | 5                            | nw        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                       |
| New Brunswick.....                   | Middlesex.....  | 110             | 72                      | 57.8                         | -2.6                      | 94      | 23    | 35     | 3†    | 47                       | 2.94  | -0.95                     | 1.15                 | 0                         | 9                                | 12    | 11         | 8                            | w.        |                                                                                                                          |
| New Milford††.....                   | Bergen.....     | 9               | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.67  | .....                     | 1.30                 | 0                         | 8                                | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 54                      | 60.0                         | -1.5                      | 93      | 23    | 38     | 3†    | 41                       | 3.44  | -1.00                     | 1.24                 | 0                         | 9                                | 6     | 7          | 18                           | se.       |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 37                      | 56.3                         | -3.9                      | 95      | 23    | 30     | 8     | 44                       | 2.95  | -0.97                     | 1.42                 | 0                         | 9                                | 6     | 20         | 5                            | s.        | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                     |
| Ridgefield.....                      | Bergen.....     | 80              | 7                       | 57.6                         | .....                     | 91      | 23    | 38     | 9     | 34                       | 2.96  | .....                     | 1.19                 | 0                         | 10                               | 9     | 16         | 6                            | se.       |                                                                                                                          |
| Somerville.....                      | Somerset.....   | 70              | 42                      | 57.6                         | -3.2                      | 97      | 23    | 28     | 8     | 48                       | 3.08  | -0.77                     | 1.08                 | 0                         | 6                                | 17    | 5          | 9                            | w.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 55                      | 57.6                         | +2.4                      | 92      | 23    | 37     | 8     | 36                       | 3.24  | -0.32                     | 1.53                 | 0                         | 7                                | 13    | 7          | 11                           | w.        |                                                                                                                          |
| Woodcliff Lake††.....                | Bergen.....     | 100             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.89  | .....                     | 1.64                 | 0                         | 8                                | ..... | .....      | .....                        | .....     |                                                                                                                          |
| New York, N. Y.....                  | .....           | 365             | 55                      | 58.2                         | -2.4                      | 92      | 23    | 40     | 25    | 34                       | 2.43  | -0.75                     | 1.07                 | 0                         | 6                                | 5     | 16         | 10                           | s.        | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....              |                 | .....           | .....                   | 57.7                         | -2.9                      | 97      | 23    | 28     | 8     | 48                       | 3.18  | -0.76                     | 1.67                 | 0                         | 8                                | 12    | 12         | 7                            | sw.       |                                                                                                                          |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                                  |       |            |                              |           |                                                                                                                          |
| Belleplain.....                      | Cape May.....   | 30              | 31                      | 56.4 <sup>b</sup>            | -4.7                      | 96      | 23    | 30     | 8     | 44                       | 2.11  | -1.71                     | 1.13                 | 0                         | 7                                | 15    | 8          | 8                            | .....     | Thomas J. Durell.<br>Harold K. Tryon.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeport.....                      | Cumberland..... | 90              | 44                      | 59.0                         | -5.0                      | 96      | 23    | 33     | 8     | 40                       | 2.53  | -1.31                     | 1.70                 | 0                         | 9                                | 11    | 14         | 6                            | sw.       |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 39                      | 59.8 <sup>b</sup>            | -2.1                      | 98      | 23    | 35     | 3†    | 48                       | 2.02  | -2.19                     | 1.18                 | 0                         | 5                                | 17    | 11         | 3                            | w.        |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 29                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Freehold.....                        | Monmouth.....   | 180             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.11  | -1.73                     | 1.05                 | 0                         | 4                                | ..... | .....      | .....                        | .....     | County Agr'l Agent.<br>Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.                               |
| Hammoncton.....                      | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Hightstown††.....                    | Mercer.....     | 120             | 33                      | 58.2                         | -3.1                      | 94      | 23    | 34     | 8     | 47                       | 2.25  | -1.70                     | 1.24                 | 0                         | 4                                | 6     | 21         | 4                            | .....     |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 57.9                         | -4.0                      | 95      | 23    | 30     | 8     | 44                       | 1.99  | -1.63                     | 1.23                 | 0                         | 8                                | 27    | 2          | 2                            | sw.       |                                                                                                                          |
| Indian Mills††.....                  | Burlington..... | 76              | 36                      | 58.8                         | -3.3                      | 99      | 23    | 33     | 1†    | 46                       | 2.80  | -0.44                     | 1.14                 | 0                         | 7                                | 10    | 15         | 6                            | sw.       | James M. Armstrong.<br>R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.               |
| Lakewood.....                        | Ocean.....      | 54              | 21                      | 57.4                         | -2.8                      | 96      | 23    | 32     | 3†    | 42                       | 2.55  | -0.85                     | 1.21                 | 0                         | 9                                | 11    | 11         | 9                            | w.        |                                                                                                                          |
| Moorestown.....                      | Burlington..... | 75              | 62                      | 59.2                         | -2.1                      | 97      | 23    | 35     | 1†    | 41                       | 1.87  | -2.15                     | 1.04                 | 0                         | 4                                | 12    | 14         | 5                            | sw.       |                                                                                                                          |
| Northfield††.....                    | Atlantic.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.80  | -1.67                     | 0.83                 | 0                         | 9                                | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville††.....                 | Atlantic.....   | 26              | 27                      | 56.2                         | .....                     | 96      | 23    | 29     | 8     | 43                       | 1.79  | -1.47                     | 0.94                 | 0                         | 6                                | 20    | 10         | 1                            | s.        |                                                                                                                          |
| Runyon††.....                        | Middlesex.....  | 18              | .....                   | 56.2 <sup>a</sup>            | .....                     | 97      | 23    | 23     | 8     | 51                       | 2.81  | .....                     | 0.64                 | 0                         | 8                                | 15    | 11         | 5                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                         | Mercer.....     | 190             | 53                      | 59.4                         | -1.7                      | 94      | 23    | 40     | 6     | 35                       | 2.00  | -1.52                     | 0.90                 | 0                         | 7                                | 5     | 14         | 12                           | sw.       |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 32                      | 58.2 <sup>a</sup>            | -1.7                      | 97      | 22    | 32     | 6†    | .....                    | ..... | .....                     | .....                | 0                         | .....                            | 24    | 6          | 1                            | w.        |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 56                      | 60.1 <sup>b</sup>            | -2.2                      | 97      | 23    | 36     | 1†    | 41                       | 3.43  | -0.20                     | 1.28                 | 0                         | 6                                | ..... | .....      | .....                        | sw.       |                                                                                                                          |
| Philadelphia, Pa.....                | .....           | 117             | 55                      | 61.6                         | -1.3                      | 96      | 23    | 42     | 1     | 36                       | 2.36  | -0.84                     | 1.57                 | 0                         | 6                                | 7     | 15         | 9                            | sw.       |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 58.2                         | -3.0                      | 99      | 23    | 23     | 8     | 51                       | 2.29  | -1.43                     | 1.70                 | 0                         | 7                                | 14    | 12         | 5                            | sw.       |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                                  |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 36                      | .....                        | .....                     | 96      | 23    | .....  | ..... | .....                    | 1.95  | -1.63                     | 0.65                 | 0                         | 8                                | 17    | 9          | 5                            | ne.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 51                      | 58.0                         | -0.1                      | 95      | 23    | 43     | 26    | 37                       | 1.74  | -1.26                     | 0.76                 | 0                         | 7                                | 11    | 14         | 6                            | s.        |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 41                      | 59.4                         | +0.8                      | 93      | 23    | 43     | 26    | 35                       | 0.49  | -2.50                     | 0.19                 | 0                         | 9                                | 10    | 9          | 12                           | s.        |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 18                      | 57.2                         | -1.0                      | 97      | 23    | 42     | 1     | 38                       | 2.08  | -1.68                     | 0.84                 | 0                         | 8                                | 16    | 9          | 6                            | s.        |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 27                      | 57.8                         | -0.7                      | 89      | 23    | 42     | 1     | 30                       | 2.27  | -1.43                     | 0.97                 | 0                         | 7                                | 5     | 15         | 11                           | s.        |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 58.1                         | -0.2                      | 97      | 23    | 42     | 1     | 38                       | 1.71  | -1.70                     | 0.97                 | 0                         | 8                                | 12    | 11         | 8                            | s.        |                                                                                                                          |
| For the State.....                   |                 | .....           | .....                   | 57.7                         | -2.6                      | 99      | 23    | 23     | 8     | 51                       | 2.86  | -0.93                     | 2.04                 | 0                         | 8                                | 13    | 11         | 7                            | sw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc. T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



## Daily Precipitation for May, 1925

| Stations                                   | Drainage Basin  | Day of month |     |     |     |     |     |     |   |   |     |      |      |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      |     |      | Total |      |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|-----|-----|-----|---|---|-----|------|------|-----|----|-----|-----|-----|-----|-----|------|-----|----|-----|-----|------|------|------|-----|------|-----|------|-------|------|
|                                            |                 | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9 | 10  | 11   | 12   | 13  | 14 | 15  | 16  | 17  | 18  | 19  | 20   | 21  | 22 | 23  | 24  | 25   | 26   | 27   | 28  | 29   | 30  | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |     |     |     |   |   |     |      |      |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      |     |      |       |      |
| Belvidere.....                             | Delaware.....   | .07          |     |     | .05 |     |     |     |   |   |     |      |      |     |    |     |     |     | .47 |     |      |     | T. |     |     |      |      |      |     | .25  |     |      | 4.94  |      |
| Charlotteburg.....                         | Passaic.....    | .18          |     |     | .07 |     |     |     |   |   | *   | .66  |      |     |    |     | .37 | .19 |     |     |      |     |    |     |     |      |      |      |     | .26  |     |      | 3.38  |      |
| Culvers Lake.....                          | Delaware.....   | .02          | .10 |     | .02 | .03 | .02 | .01 |   |   | T.  | .85  |      |     |    |     | .47 | .39 |     |     |      |     |    |     | .01 | 1.15 | .52  |      |     | .35  | .03 |      | 3.97  |      |
| Dover.....                                 | Passaic.....    | .28          |     |     | .05 |     |     |     |   |   | *   | 1.18 |      |     |    |     | .02 | .26 |     |     |      |     |    |     | *   | 2.04 |      |      |     | .26  |     |      | 4.09  |      |
| Layton.....                                | Delaware.....   | .04          | .09 |     | .11 |     | T   |     |   |   | T.  | .96  |      |     |    |     | .18 | .24 |     |     |      |     |    |     | .14 | 1.02 | .44  |      |     | .81  |     |      | 4.03  |      |
| Newton.....                                | Delaware.....   | .06          | T   |     |     | .28 |     |     |   |   | T.  | 1.00 |      |     |    |     |     | .24 |     |     |      |     |    |     |     | 1.30 | .32  |      |     | .24  |     |      | 3.44  |      |
| Phillipsburg.....                          | do.....         | T.           |     | T.  | .06 |     |     |     |   |   | .17 | .77  |      |     |    |     | T   | .17 |     |     |      |     |    |     | .09 | 1.12 | .05  |      |     | .09  |     |      | 2.52  |      |
| Sussex.....                                | Hudson.....     | .10          | .04 |     |     | .19 |     | .05 |   |   |     | .91  |      |     |    |     | .53 | .19 |     |     |      |     |    |     | .25 | 1.32 | .60  |      |     | .42  | .03 |      | 4.63  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |     |     |     |   |   |     |      |      |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      |     |      |       |      |
| Bergen Point**.....                        | Coast.....      |              |     |     | .01 |     |     |     |   |   | .41 | .54  |      |     |    |     | T.  |     | .28 |     |      |     | T. |     | .04 | 1.05 | .04  |      |     | .40  |     |      | 2.49  |      |
| Boonton   .....                            | Passaic.....    | .38          | .04 |     | .01 |     |     |     |   |   |     | .80  | .52  |     |    |     |     | .07 |     | .26 |      |     |    |     |     | .28  | 1.67 |      |     | .27  |     |      | 4.23  |      |
| Chatham   .....                            | do.....         | .31          |     |     |     |     |     |     |   |   |     | .43  | .69  |     |    |     |     |     | .07 |     |      |     | T  |     |     | .28  | .26  |      |     | *    | .16 |      | 2.20  |      |
| Elizabeth.....                             | Coast.....      | .16          | .05 |     | T   |     | T   |     |   |   | .02 | .77  |      |     |    |     |     | T.  |     | *   |      |     |    |     |     | *    | 1.20 |      |     | *    | .51 |      | 2.66  |      |
| Flemington.....                            | Raritan.....    | .07          |     |     | T.  | .01 |     |     |   |   | .03 | 1.12 |      |     |    |     |     | .04 |     |     |      |     |    |     |     | .74  | .45  |      |     | .51  |     |      | 2.93  |      |
| Highwood.....                              | Hackensack..... | .17          | T.  |     |     |     |     |     |   |   | T.  | 1.41 | .02  |     |    |     |     | .02 |     | .19 | .95  | .40 |    |     |     |      |      |      | .90 | T.   |     | 4.06 |       |      |
| Jersey City.....                           | Coast.....      | .03          |     |     | T.  |     |     |     |   |   | .04 | .82  |      |     |    |     |     | T   |     | .03 |      |     |    | T.  | .82 | .58  |      |      |     | .54  | T.  |      | 2.83  |      |
| Lambertville.....                          | Delaware.....   | .02          |     |     | .01 | .04 | .02 |     |   |   | .07 | 1.16 |      |     |    |     |     | .02 |     | .26 |      |     |    | .03 | .87 | .37  |      |      |     | .27  |     |      | 2.88  |      |
| Little Falls.                              | Passaic.....    | .34          | .06 |     | T.  |     |     |     |   |   | T.  | .41  | .88  |     |    |     | .04 | .13 |     |     |      |     |    |     | .32 | 1.23 |      |      |     | .28  |     |      | 3.69  |      |
| New Brunswick.....                         | Raritan.....    | .05          |     |     |     | .02 | T.  |     |   |   | .02 | 1.15 | .01  |     |    |     |     |     |     | .49 |      |     |    |     |     | .49  | .52  |      |     | .29  | .39 |      | 2.94  |      |
| New Milford.**.....                        | Hackensack..... | .02          |     |     |     |     |     |     |   |   |     | 1.24 |      |     |    | .06 |     | .05 |     | .48 | 1.30 | .04 |    |     |     | .48  | 1.30 | .04  |     | .43  |     |      | 3.67  |      |
| Paterson.....                              | Passaic.....    | .17          | .01 |     | T.  |     |     |     |   |   | T.  | 1.19 | .05  |     |    | .09 |     | .11 |     |     |      |     | T. |     | .02 | 1.04 | .35  |      |     | .15  | .26 |      | 3.44  |      |
| Plainfield.....                            | Raritan.....    | .08          |     |     | .01 |     |     |     |   |   | .05 | .78  |      |     |    |     | T.  |     | .03 |     |      |     | T. |     | .06 | 1.42 | .05  |      |     | .47  |     |      | 2.95  |      |
| Ridgefield.....                            | Hackensack..... | .03          |     |     | .01 |     |     |     |   |   | T.  | .01  | 1.10 | .03 |    |     |     | T   |     | .02 |      |     |    |     | .02 |      | 1.19 |      |     | .49  | .08 |      | 2.96  |      |
| Somerville.....                            | Raritan.....    |              |     |     | T.  | T.  | T.  |     |   |   | T.  | .85  | .04  |     |    |     |     | T.  |     |     |      |     |    |     |     | 1.08 | .47  |      |     | .13  | .51 |      | 3.08  |      |
| South Orange.....                          | Rahway.....     | .04          |     |     | T   |     |     |     |   |   | .04 | 1.40 |      |     |    |     |     | T.  |     | .10 | 1.53 | .07 |    |     |     | .10  | 1.53 | .07  |     | .06  |     |      | 3.24  |      |
| Woodcliff Lake**.....                      | Hackensack..... | .24          |     |     |     |     |     |     |   |   |     | 1.64 |      |     |    | .05 | .11 | .07 |     | .05 | 1.48 |     |    |     |     | .05  | 1.48 |      |     | .25  |     |      | 3.89  |      |
| New York, N. Y***.....                     | Coast.....      | T.           |     |     |     |     |     |     |   |   | .26 | .51  |      |     |    |     |     | T.  |     | .08 | 1.02 | .06 |    |     |     | .08  | 1.02 | .06  |     | .50  | T.  |      | 2.43  |      |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |     |     |     |   |   |     |      |      |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      |     |      |       |      |
| Belleplain.....                            | Tuckahoe.....   | .05          |     |     | T.  | .03 | T.  |     |   |   | T.  | *    | .37  |     |    |     |     |     |     |     |      |     |    |     |     |      |      | 1.13 |     | .34  | .19 |      | 2.11  |      |
| Bridgeton.....                             | Coast.....      | .03          |     |     | .03 | .02 | T.  |     |   |   | T.  | .02  | .52  | .02 |    |     |     |     |     |     |      |     |    |     |     | 1.20 | .50  |      |     | T.   | .19 |      | 2.53  |      |
| Burlington.....                            | Delaware.....   |              |     |     |     |     |     |     |   |   | T   | *    | .54  |     |    |     |     |     |     |     |      |     |    |     |     | .24  | 1.18 |      |     |      | .06 |      | 2.02  |      |
| Clayton.....                               | Delaware.....   |              |     |     |     |     |     |     |   |   |     | .17  |      |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      |     |      | 2.11  |      |
| Freehold.....                              | Coast.....      |              |     |     |     |     |     |     |   |   |     | .45  |      |     |    |     |     |     |     |     |      |     |    |     |     | .19  | 1.05 |      |     |      | .70 |      | 2.11  |      |
| Hammononton.....                           | Mullica.....    |              |     |     |     |     |     |     |   |   |     | .45  |      |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      |     |      | 2.25  |      |
| Hightstown.....                            | Raritan.....    |              |     |     |     |     |     |     |   |   |     |      |      |     |    |     |     |     |     |     |      |     |    |     |     | .24  | 1.24 |      |     | .32  |     |      | 2.25  |      |
| Imlaystown.....                            | Delaware.....   |              |     | .02 |     | .03 |     |     |   |   | .03 | .20  | .22  |     |    |     |     |     |     |     |      |     |    |     |     | .22  | 1.23 |      |     |      | .05 |      | 1.99  |      |
| Indian Mills.....                          | Mullica.....    | .06          |     |     | T.  | .10 |     |     |   |   | T.  | .20  | .21  |     |    |     | T.  |     |     |     |      |     |    |     | T.  | .21  | .88  |      |     | 1.14 |     |      | 2.80  |      |
| Lakewood.....                              | Metedeconk..... | .07          |     |     | T.  | .15 | T.  |     |   |   | .02 | .51  | .14  |     |    |     | T.  |     |     |     |      |     |    |     |     | .33  | .88  |      |     | .20  | .25 |      | 2.55  |      |
| Moorestown.....                            | Delaware.....   |              |     |     |     |     |     |     |   |   | T   | .38  |      |     |    |     |     |     |     |     |      |     |    |     |     | .16  | .88  |      |     | .45  |     |      | 1.87  |      |
| Northfield.....                            | Coast.....      | .06          |     |     | .01 | .01 |     |     |   |   | .03 | .05  | .83  |     |    |     |     |     |     |     |      |     |    |     |     | .01  | .17  |      |     | .12  | .54 |      | 1.80  |      |
| Pleasantville   .....                      | Coast.....      |              |     |     | T.  | T.  | .05 | T.  |   |   |     | .04  | .94  |     |    |     |     |     |     |     |      |     |    |     |     | .22  | .23  |      |     | .31  |     |      | 1.79  |      |
| Runyon.....                                | Coast.....      | .07          |     |     |     |     |     |     |   |   |     | .64  | .06  |     |    |     |     | .06 |     |     |      |     |    |     |     | .52  | .63  |      |     | .63  | .20 |      | 2.81  |      |
| Trenton***.....                            | Delaware.....   | T.           |     |     | T.  | T.  | .01 |     |   |   | .05 | .59  |      |     |    |     | T.  | T.  | T.  |     |      |     |    |     | .16 | .89  | .01  | T    |     |      | .29 |      |       | 2.00 |
| Tuckerton.....                             | Coast.....      | .16          |     |     |     |     |     |     |   |   | \$  | .42  | \$   |     |    |     |     |     |     |     |      |     |    |     | *   | .65  |      |      |     |      | .62 |      | \$    | 3.43 |
| Vineland.....                              | Maurice.....    | .27          |     |     |     |     |     | .12 |   |   |     | .45  |      |     |    |     |     |     |     |     |      |     |    |     |     | .09  | 1.28 |      |     | 1.25 |     |      |       | 2.36 |
| Phila., Pa***.....                         | Delaware.....   | T.           |     |     | T.  | T.  | T.  |     |   |   | .05 | .45  |      |     |    |     |     | .01 |     |     |      |     |    |     | .09 | 1.48 |      |      |     | .28  |     |      |       | 2.36 |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |     |     |     |   |   |     |      |      |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      |     |      |       |      |
| Asbury Park.....                           | Coast.....      | T.           |     |     | .12 | .14 |     |     |   |   | .06 | .65  | .10  |     |    |     | T.  |     |     |     |      |     |    |     |     | .30  | .20  | .04  |     |      | .32 | .02  |       | 1.95 |
| Atlantic City***.....                      | do.....         |              |     |     | T.  | T.  | T.  |     |   |   | .06 | .71  | .05  |     |    |     |     |     | T.  |     |      |     |    |     |     | .04  | .25  | .01  |     |      | .62 |      |       | 1.74 |
| Cape May City.....                         | do.....         |              |     |     | .07 | T.  | .02 |     |   |   | .02 | .01  | .18  |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      | T.  | .02  |       | 0.49 |
| Long Branch**.....                         | do.....         | T.           |     |     | .08 |     |     |     |   |   | .10 | .40  | .01  |     |    |     |     |     |     |     |      |     |    |     |     |      |      |      |     |      | .52 |      |       | 2.08 |
| Sandy Hook***.....                         | do.....         | T.           |     |     | .04 |     | T   |     |   |   | .10 | .51  |      |     |    |     | T.  |     | T.  |     |      |     |    |     |     | .11  | .92  | .01  |     |      | .60 |      |       | 2.27 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                                |                                        | Sun-<br>shine                     |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-----------------------------------------|----------------------------------------|-----------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m | Percentage of<br>possible sunshin |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                         |                                        |                                   |
| Atlantic City.....    | 29.92        | 30.36   | 16   | 29.45  | 23   | 15.2            | 51             | e.        | 24   | 71                                      | 73                                     | 63                                |
| Cape May City.....    | 30.01        | 30.38   | 16   | 29.55  | 23   | 7.2             | 35             | e.        | 24   | 71                                      | 78                                     | .....                             |
| Long Branch.....      | 29.94        | 30.34   | 16   | 29.36  | 23   | 15.7            | 64             | w.        | 17   | .....                                   | .....                                  | .....                             |
| New York, N. Y.....   | 29.97        | 30.35   | 16   | 29.43  | 23   | 8.6             | 26             | ne.       | 24   | 67                                      | 64                                     | 68                                |
| Philadelphia, Pa..... | 29.94        | 30.35   | 16   | 29.35  | 23   | .....           | .....          | .....     | 23   | 73                                      | 63                                     | 68                                |
| Ridgefield.....       | 29.94        | 30.36   | 16   | 29.38  | 23   | 13.4            | 54             | n.        | 23   | 70                                      | 68                                     | 68                                |
| Sandy Hook.....       | 29.94        | 30.36   | 16   | 29.38  | 23   | 13.4            | 54             | n.        | 23   | 70                                      | 68                                     | 68                                |
| Trenton.....          | 29.95        | 30.35   | 16   | 29.40  | 23   | 9.9             | 42             | nw.       | 23   | 73                                      | 68                                     | 65                                |



## Daily Temperatures for May, 1925

| Stations                             | 1       | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11 | 12 | 13 | 14 | 15 | 16 | 17   | 18   | 19   | 20 | 21 | 22 | 23   | 24   | 25   | 26 | 27 | 28 | 29   | 30 | 31 | Mean              |                   |      |
|--------------------------------------|---------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|----|------|------|------|----|----|----|------|------|------|----|----|----|------|----|----|-------------------|-------------------|------|
| The Highlands and Kittatinny Valley. |         |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |      |      |      |    |    |    |      |      |      |    |    |    |      |    |    |                   |                   |      |
| Belvidere.....                       | Maximum | 59   | 61   | 67   | 71   | 63   | 59   | 61   | 66   | 74   | 70 | 65 | 71 | 77 | 79 | 73 | 77   | 79   | 72   | 78 | 82 | 84 | 78   | 96   | 80   | 53 | 67 | 73 | 76   | 66 | 81 | 83                | 72.3              |      |
|                                      | Minimum | 37   | 36   | 32   | 45   | 43   | 38   | 39   | 31   | 34   | 46 | 46 | 43 | 39 | 44 | 51 | 40   | 58   | 47   | 39 | 42 | 46 | 46   | 53   | 41   | 39 | 39 | 43 | 44   | 51 | 52 | 60                | 43.0              |      |
| Charlotteburg.....                   | Maximum | 56   | 58   | 64   | 69   | 61   | 60   | 59   | 58   | .... | 68 | 68 | 69 | 73 | 73 | 70 | 77   | 76   | 68   | 72 | 77 | 80 | 72   | 90   | 78   | 50 | 65 | 69 | 72   | 63 | 75 | 80                | 69.0 <sup>a</sup> |      |
|                                      | Minimum | 37   | 36   | 32   | 37   | 43   | 34   | 37   | 25   | 27   | 36 | 45 | 42 | 30 | 37 | 47 | 42   | .... | 40   | 30 | 33 | 35 | 40   | 55   | 45   | 36 | 37 | 36 | 36   | 42 | 51 | 47                | 38.3 <sup>a</sup> |      |
| Dover.....                           | Maximum | 56   | 60   | 65   | 69   | 64   | 57   | 60   | 65   | 69   | 68 | 68 | 68 | 74 | 73 | 71 | 77   | 78   | 70   | 75 | 79 | 81 | 75   | 93   | .... | 52 | 66 | 71 | 72   | 63 | 77 | 84                | 70.0 <sup>a</sup> |      |
|                                      | Minimum | 38   | 37   | 33   | 42   | 45   | 37   | 40   | 30   | 32   | 43 | 45 | 43 | 38 | 43 | 51 | 45   | 56   | 46   | 38 | 41 | 43 | 46   | 57   | 41   | 39 | 40 | 38 | 42   | 50 | 53 | 50                | 42.6              |      |
| Layton.....                          | Maximum | 54   | 55   | 64   | 72   | 62   | 57   | 59   | 51   | 68   | 69 | 64 | 70 | 74 | 76 | 70 | 74   | 74   | 68   | 75 | 78 | 82 | 72   | 91   | 62   | 50 | 64 | 70 | 72   | 68 | 78 | 82                | 68.5              |      |
|                                      | Minimum | 39   | 32   | 27   | 40   | 43   | 35   | 36   | 25   | 28   | 41 | 55 | 40 | 32 | 38 | 50 | 34   | 57   | 46   | 32 | 35 | 45 | 45   | 58   | 42   | 38 | 37 | 31 | 38   | 48 | 49 | 46                | 40.1              |      |
| Newton.....                          | Maximum | 60   | 58   | 68   | 65   | 63   | .... | 63   | 68   | 70   | 72 | 68 | 70 | 79 | 75 | 72 | 75   | 78   | 68   | 77 | 78 | 83 | .... | 96   | 86   | 51 | 60 | 68 | 78   | 63 | 78 | 83                | 71.5 <sup>b</sup> |      |
|                                      | Minimum | 40   | 38   | 34   | 40   | 43   | 37   | 39   | 33   | 30   | 37 | 55 | 41 | 41 | 46 | 48 | 41   | 55   | 48   | 41 | 46 | 48 | 45   | 56   | 39   | 37 | 39 | 44 | .... | 49 | 51 | 53                | 43.0 <sup>a</sup> |      |
| Phillipsburg.....                    | Maximum | .... | .... | .... | .... | .... | .... | .... | .... | .... | 71 | 66 | 63 | 74 | 75 | 71 | 75   | 78   | 70   | 76 | 80 | 82 | 76   | 96   | 69   | 55 | 66 | 71 | 74   | 64 | 79 | 87                | 73.5 <sup>c</sup> |      |
|                                      | Minimum | 40   | 39   | 33   | 47   | 47   | 42   | 41   | 32   | 35   | 39 | 48 | 48 | 39 | 50 | 46 | .... | 56   | 49   | 41 | 43 | 45 | 48   | .... | 43   | 41 | 40 | 42 | 46   | 51 | 53 | 53                | 44.0 <sup>b</sup> |      |
| Sussex.....                          | Maximum | 56   | 59   | 65   | 72   | 64   | 58   | 60   | 62   | 70   | 70 | 65 | 72 | 76 | 76 | 72 | 75   | 75   | 70   | 74 | 80 | 83 | 76   | 91   | 80   | 53 | 64 | 70 | 74   | 63 | 77 | 82                | 70.5              |      |
|                                      | Minimum | 39   | 35   | 30   | 42   | 44   | 35   | 38   | 29   | 29   | 42 | 55 | 42 | 34 | 41 | 49 | 39   | 57   | 44   | 35 | 39 | 44 | 44   | 57   | 41   | 39 | 37 | 35 | 40   | 51 | 50 | 51                | 41.5              |      |
| The Red Sandstone Plain.             |         |      |      |      |      |      |      |      |      |      |    |    |    |    |    |    |      |      |      |    |    |    |      |      |      |    |    |    |      |    |    |                   |                   |      |
| Bergen Point.....                    | Maximum | 59   | 59   | 69   | 72   | 65   | 59   | 61   | 65   | 72   | 65 | 74 | 63 | 69 | 69 | 64 | 67   | 80   | .... | 71 | 69 | 81 | 73   | 94   | 73   | 52 | 65 | 71 | 73   | 65 | 75 | 81                | 69.2 <sup>a</sup> |      |
|                                      | Minimum | 46   | 42   | 39   | 52   | 50   | 49   | 39   | 39   | 52   | 50 | 54 | 49 | 50 | 55 | 49 | 49   | 57   | 49   | 45 | 49 | 49 | 51   | 57   | 45   | 41 | 45 | 49 | 50   | 52 | 53 | 60                | 48.9              |      |
| Boonton§§.....                       | Maximum | 56   | 59   | 64   | 70   | 62   | 56   | 60   | 63   | 70   | 67 | 70 | 66 | 73 | 76 | 70 | 72   | 79   | 68   | 76 | 77 | 79 | 71   | 82   | 55   | 50 | 66 | 72 | 62   | 78 | 82 | 68.5              |                   |      |
|                                      | Minimum | 38   | 32   | 32   | 39   | 46   | 34   | 34   | 29   | 30   | 40 | 48 | 45 | 35 | 42 | 49 | 42   | 53   | 47   | 36 | 39 | 39 | 43   | 55   | 39   | 39 | 40 | 45 | 41   | 45 | 51 | 48                | 41.1              |      |
| Elizabeth.....                       | Maximum | 60   | 63   | 67   | 73   | 67   | 62   | 63   | 67   | 73   | 71 | 74 | 65 | 74 | 73 | 65 | 71   | 83   | 74   | 76 | 81 | 84 | 80   | 96   | 89   | 55 | 69 | 73 | 76   | 67 | 78 | 84                | 72.7              |      |
|                                      | Minimum | 38   | 38   | 35   | 49   | 47   | 37   | 38   | 35   | 37   | 47 | 54 | 46 | 39 | 47 | 52 | 51   | 57   | 49   | 40 | 43 | 44 | 48   | 55   | 45   | 41 | 40 | 39 | 47   | 49 | 53 | 51                | 44.9              |      |
| Flemington.....                      | Maximum | 59   | 62   | 65   | 69   | 65   | 59   | 63   | 66   | 74   | 67 | 70 | 67 | 73 | 74 | 70 | 78   | 79   | 74   | 77 | 79 | 82 | 77   | 93   | 91   | 51 | 66 | 73 | 75   | 67 | 81 | 83                | 71.9              |      |
|                                      | Minimum | 36   | 35   | 33   | 42   | 46   | 38   | 36   | 31   | 34   | 44 | 56 | 46 | 38 | 45 | 51 | 46   | 58   | 50   | 40 | 41 | 42 | 48   | 58   | 46   | 41 | 43 | 41 | 45   | 50 | 55 | 52                | 44.1              |      |
| Highwood.....                        | Maximum | 60   | 61   | 67   | 71   | 66   | 60   | 62   | 64   | 70   | 70 | 71 | 66 | 71 | 71 | 70 | 70   | 80   | 58   | 73 | 75 | 82 | 74   | 87   | 69   | 51 | 66 | 68 | 70   | 62 | 73 | 78                | 69.2              |      |
|                                      | Minimum | 40   | 37   | 34   | 50   | 46   | 35   | 38   | 32   | 33   | 43 | 56 | 44 | 38 | 57 | 52 | 53   | 57   | 49   | 40 | 43 | 43 | 46   | 55   | 44   | 40 | 38 | 38 | 44   | 47 | 52 | 48                | 44.3              |      |
| Jersey City.....                     | Maximum | 57   | 60   | 66   | 71   | 64   | 60   | 62   | 64   | 70   | 65 | 71 | 64 | 71 | 69 | 67 | 65   | 80   | 67   | 74 | 75 | 81 | 71   | 96   | 74   | 54 | 67 | 70 | 77   | 68 | 76 | 82                | 69.6              |      |
|                                      | Minimum | 41   | 43   | 42   | 52   | 48   | 42   | 45   | 41   | 47   | 54 | 54 | 58 | 49 | 54 | 52 | 57   | 49   | 49   | 53 | 53 | 56 | 58   | 46   | 40   | 45 | 48 | 54 | 54   | 55 | 59 | 50                | 50.0              |      |
| Lambertville.....                    | Maximum | 57   | 59   | 66   | 70   | 60   | .... | 59   | 63   | 70   | 65 | 70 | 66 | 74 | 74 | 67 | 77   | 67   | 73   | 78 | 79 | 74 | 92   | 68   | 52   | 71 | 75 | 77 | 68   | 76 | 81 | 70.2 <sup>a</sup> |                   |      |
|                                      | Minimum | 36   | 38   | 37   | 48   | 45   | 37   | 40   | 35   | 43   | 46 | 55 | 45 | 53 | 48 | 48 | 49   | 59   | 47   | 41 | 46 | 47 | 48   | 55   | 44   | 40 | 40 | 47 | 50   | 51 | 53 | 55                | 46.0              |      |
| Little Falls§§.....                  | Maximum | 54   | 60   | 62   | 71   | 64   | 54   | 58   | 62   | 72   | 70 | 72 | 62 | 69 | 75 | 65 | 77   | 80   | 77   | 78 | 78 | 82 | 75   | 92   | 57   | 52 | 66 | 68 | 70   | 65 | 77 | 84                | 69.0              |      |
|                                      | Minimum | 39   | 41   | 34   | 45   | 47   | 36   | 40   | 30   | 33   | 43 | 55 | 45 | 38 | 45 | 50 | 46   | 48   | 39   | 42 | 40 | 45 | 57   | 45   | 39   | 40 | 39 | 43 | 46   | 53 | 47 | 43.4              |                   |      |
| New Brunswick.....                   | Maximum | 59   | 60   | 65   | 70   | 67   | 58   | 60   | 64   | 71   | 68 | 73 | 65 | 73 | 65 | 72 | 79   | 74   | 73   | 79 | 82 | 79 | 94   | 92   | 51   | 64 | 70 | 72 | 68   | 76 | 80 | 70.8              |                   |      |
|                                      | Minimum | 37   | 38   | 35   | 47   | 48   | 40   | 38   | 35   | 35   | 46 | 53 | 48 | 40 | 46 | 49 | 48   | 57   | 50   | 40 | 43 | 42 | 51   | 56   | 45   | 41 | 42 | 41 | 46   | 48 | 52 | 54                | 44.9              |      |
| Paterson.....                        | Maximum | 59   | 62   | 67   | 72   | 65   | 60   | 62   | 65   | 72   | 66 | 72 | 67 | 74 | 75 | 70 | 72   | 83   | 78   | 76 | 81 | 85 | 78   | 93   | 83   | 52 | 69 | 74 | 73   | 65 | 77 | 85                | 73.2              |      |
|                                      | Minimum | 40   | 41   | 38   | 48   | 49   | 42   | 43   | 38   | 40   | 47 | 56 | 47 | 43 | 50 | 52 | 52   | 56   | 50   | 44 | 46 | 47 | 50   | 56   | 41   | 42 | 43 | 48 | 51   | 54 | 55 | 46.9              |                   |      |
| Plainfield.....                      | Maximum | 59   | 62   | 67   | 72   | 65   | 60   | 62   | 65   | 72   | 66 | 72 | 65 | 72 | 73 | 68 | 66   | 81   | 67   | 76 | 79 | 83 | 72   | 95   | 74   | 56 | 68 | 70 | 77   | 70 | 78 | 83                | 70.8              |      |
|                                      | Minimum | 37   | 35   | 31   | 43   | 45   | 37   | 35   | 30   | 31   | 44 | 49 | 46 | 36 | 44 | 46 | 47   | .... | 49   | 37 | 39 | 39 | 45   | 55   | 47   | 40 | 39 | 37 | 43   | 47 | 51 | 49                | 41.8 <sup>a</sup> |      |
| Ridgefield.....                      | Maximum | 56   | 59   | 65   | 70   | 67   | 60   | 60   | 65   | 68   | 70 | 71 | 64 | 73 | 71 | 67 | 67   | 67   | 67   | 67 | 67 | 67 | 67   | 67   | 67   | 67 | 67 | 67 | 67   | 67 | 67 | 67                | 67                |      |
|                                      | Minimum | 39   | 40   | 40   | 51   | 48   | 39   | 43   | 39   | 38   | 47 | 52 | 46 | 42 | 49 | 52 | 52   | 56   | 49   | 41 | 51 | 49 | 51   | 57   | 44   | 41 | 41 | 41 | 41   | 41 | 41 | 41                | 41                |      |
| Somerville.....                      | Maximum | 60   | 63   | 68   | 72   | 67   | 60   | 67   | 68   | 74   | 72 | 70 | 67 | 75 | 70 | 75 | 70   | 75   | 80   | 72 | 76 | 80 | 84   | 78   | 97   | 93 | 55 | 67 | 73   | 75 | 69 | 79                | 83                | 73.0 |
|                                      | Minimum | 36   | 33   | 30   | 47   | 47   | 37   | 34   | 28   | 31   | 42 | 55 | 46 | 36 | 44 | 47 | 45   | 57   | 50   | 32 | 38 | 40 | 43   | 55   | 45   | 42 | 42 | 42 | 42   | 42 | 42 | 42                | 42                |      |
| South Orange.....                    | Maximum | 58   | 61   | 66   | 70   | 63   | 59   | 60   | 64   | 70   | 68 | 71 | 65 | 69 | 69 | 66 | 69   | 77   | 67   | 72 | 75 | 80 | 72   | 92   | 70   | 52 | 63 | 70 | 72   | 65 | 75 | 80                | 68.7              |      |
|                                      | Minimum | 39   | 39   | 38   | 49   | 44   | 41   | 40   | 37   | 40   | 48 | 56 | 47 | 42 | 49 | 50 | 49   | 56   | 49   | 47 | 47 | 48 | 51   | 56   | 43   | 41 | 44 | 46 | 49   | 50 | 55 | 55                | 46.6              |      |
| New York, N. Y.....                  | Maximum | 56   | 59   | 62   | 68   | 63   | 56   | 58   | 62   | 66   | 64 | 70 | 62 | 69 | 65 | 64 | 63   | 78   | 63   | 71 | 70 | 79 | 69   | 92   | 64   | 51 | 65 | 69 | 73   | 63 | 73 | 81                | 66.7              |      |
|                                      | Minimum | 41   |      |      |      |      |      |      |      |      |    |    |    |    |    |    |      |      |      |    |    |    |      |      |      |    |    |    |      |    |    |                   |                   |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

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TRENTON, N. J.

VOL. XXX.

JUNE, 1925.

No. 6

### GENERAL SUMMARY.

The high temperatures of the first week of June will likely remain for a considerable period as the record, with readings averaging some 15 to 17 degrees above normal, away from the immediate coast. In the remainder of the month there were but 5 days with temperatures appreciably subnormal. The monthly State mean temperature, 73.6° exceeds by one degree the previous hottest June, which occurred in 1923, and slightly exceeded the July normal, which is the first time this has been recorded. During this hot week, temperatures were in the 90's or 100's daily. This hot wave was accompanied by a total absence of rain until the 9th when somewhat relieving showers fell in northern counties, but not to the southward. This drought was very damaging to strawberries and greatly shortened growth of garden truck, grass and pasturage. On the 14th showers commenced with marked frequency, which greatly relieved the drought situation, except in a narrow zone from the Somerset-Middlesex county boundary southwestward to the lower Delaware and Delaware Bay. In this restricted area the deficiency of rain exceeded two inches, and was next to the driest June record for the Trenton station. In combination of heat and dryness this month broke all previous June records. In the latter half of the month typically heavy summer thundershowers occurred in various portions of northern counties, and in the extreme northeastern corner of the State the rain slightly exceeded the normal volume.

Storm warnings were displayed along the coast on the 24th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 73.6°, which was 5.1° above normal. The highest temperature was 103° at Belvidere on the 5th, and the lowest, 36°, at Charlotteburg on the 12th. The greatest daily range of temperature was 54° at Runyon on the 17th. The highest monthly mean temperature was 77.7° at Burlington, and the lowest, 68.5° at Charlotteburg.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +1.8°; Red Sandstone Plain, +1.8°; Southern Interior, +2.9°; Sea Coast, +3.1°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 42 stations, was 3.10 inches, which was 0.64 inch below normal.

The greatest monthly precipitation was 6.16 inches, at Chatham, and the least, 0.72 inch at Trenton. The greatest amount of precipitation in any 24 consecutive hours was 2.42 inches at South Orange on the 25th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, -0.92 inch; Red Sandstone Plain, -2.48 inches; Southern Interior, -6.33 inches; Sea Coast, -5.90 inches.

### WIND.

The prevailing wind direction was from the southwest. The

wind movement averaged 12 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 66 miles per hour from the northwest at Sandy Hook on the 29th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 17, which was 4 more than normal; partly cloudy, 9, or 1 less than normal; cloudy, 4, or 3 less than normal. The per cent of possible sunshine was 74, which was 13 per cent above normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.5 feet, and the highest stage, 2.8 feet on the 1st. At Trenton the mean daily stage was 0.9 foot, which was 1.0 foot below the normal; the highest stage was 1.8 feet on the 1st.

The mean atmospheric pressure, reduced to sea level, was 29.98 inches, which was normal. The highest reading was 30.34 inches at Sandy Hook and Ridgefield on the 12th, and the lowest, 29.57 at Ridgefield on the 18th.

Thunderstorms occurred daily in some portion of the State except on the 3d to the 8th, inclusive, 11th to the 13th, inclusive, 17th, 19th, 23d, 24th and 26th. Dense fog occurred on the 8th and 9th. A lunar halo was observed on the 3d, and a solar halo on the 15th. Light hail with no damage reported fell at Indian Mills on the 9th, Flemington on the 16th, Layton and Highwood on the 20th, and Lambertville and New Brunswick on the 29th.

### COMPARATIVE DATA FOR JUNE

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 68.7        | 97      | 39     | 1.79          | 3.37     | 0.72  | .....      | .....         | .....  | .....                  |
| 1886..... | 67.1        | 91      | 41     | 3.38          | 5.79     | 2.22  | .....      | .....         | .....  | .....                  |
| 1887..... | 68.2        | 97      | 42     | 6.77          | 10.29    | 4.21  | .....      | .....         | .....  | .....                  |
| 1888..... | 70.8        | 99      | 39     | 2.59          | 5.69     | 1.67  | .....      | .....         | .....  | .....                  |
| 1889..... | 69.9        | 91      | 40     | 3.73          | 6.75     | 2.39  | .....      | .....         | .....  | .....                  |
| 1890..... | 70.7        | 95      | 42     | 3.59          | 5.16     | 0.99  | 11         | 13            | .....  | .....                  |
| 1891..... | 69.7        | 102     | 38     | 2.92          | 6.71     | 1.24  | 14         | 9             | .....  | .....                  |
| 1892..... | 72.4        | 98      | 44     | 3.85          | 6.12     | 1.58  | 10         | 12            | .....  | .....                  |
| 1893..... | 69.7        | 103     | 40     | 2.95          | 7.02     | 0.46  | 10         | 11            | .....  | .....                  |
| 1894..... | 70.6        | 102     | 35     | 2.28          | 5.90     | 0.99  | 14         | 11            | .....  | .....                  |
| 1895..... | 71.7        | 103     | 39     | 3.24          | 5.99     | 0.93  | 11         | 11            | .....  | .....                  |
| 1896..... | 68.1        | 96      | 37     | 5.46          | 13.45    | 2.64  | 12         | 10            | .....  | .....                  |
| 1897..... | 66.1        | 95      | 35     | 3.38          | 5.50     | 2.12  | 10         | 13            | .....  | .....                  |
| 1898..... | 70.1        | 100     | 38     | 2.10          | 3.54     | 1.13  | 14         | 12            | .....  | .....                  |
| 1899..... | 72.3        | 103     | 38     | 2.50          | 4.34     | 1.01  | 15         | 10            | .....  | .....                  |
| 1900..... | 70.4        | 97      | 39     | 3.08          | 4.91     | 1.10  | 12         | 12            | .....  | .....                  |
| 1901..... | 70.0        | 103     | 35     | 1.67          | 4.36     | 0.73  | 18         | 8             | .....  | .....                  |
| 1902..... | 67.5        | 99      | 37     | 6.57          | 10.21    | 4.54  | 14         | 11            | .....  | .....                  |
| 1903..... | 64.0        | 92      | 37     | 7.68          | 15.02    | 2.39  | 6          | 10            | .....  | .....                  |
| 1904..... | 68.6        | 100     | 34     | 3.13          | 5.44     | 1.91  | 13         | 10            | .....  | .....                  |
| 1905..... | 68.3        | 96      | 35     | 3.43          | 8.71     | 1.67  | 11         | 12            | .....  | .....                  |
| 1906..... | 70.4        | 98      | 38     | 4.48          | 9.18     | 1.45  | 11         | 11            | .....  | .....                  |
| 1907..... | 64.7        | 96      | 31     | 4.41          | 6.85     | 3.15  | 12         | 10            | .....  | .....                  |
| 1908..... | 69.9        | 99      | 35     | 2.32          | 4.63     | 0.77  | 16         | 12            | .....  | .....                  |
| 1909..... | 70.0        | 99      | 36     | 3.26          | 5.70     | 1.71  | 9          | 10            | .....  | .....                  |
| 1910..... | 66.9        | 95      | 34     | 5.17          | 8.01     | 2.66  | 9          | 10            | .....  | .....                  |
| 1911..... | 68.9        | 97      | 40     | 5.36          | 10.11    | 2.84  | 9          | 12            | .....  | .....                  |
| 1912..... | 68.0        | 98      | 33     | 1.94          | 3.61     | 0.91  | 9          | 12            | .....  | .....                  |
| 1913..... | 69.1        | 98      | 31     | 1.80          | 3.76     | 0.68  | 19         | 8             | .....  | .....                  |
| 1914..... | 68.5        | 98      | 35     | 2.66          | 4.85     | 1.09  | 16         | 9             | .....  | .....                  |
| 1915..... | 67.0        | 95      | 37     | 3.12          | 6.51     | 1.40  | 13         | 10            | .....  | .....                  |
| 1916..... | 64.7        | 87      | 36     | 4.20          | 5.99     | 2.22  | 10         | 9             | .....  | .....                  |
| 1917..... | 68.9        | 95      | 40     | 4.27          | 7.14     | 2.80  | 13         | 10            | .....  | .....                  |
| 1918..... | 66.3        | 96      | 32     | 3.43          | 6.21     | 1.35  | 15         | 9             | .....  | .....                  |
| 1919..... | 69.5        | 99      | 38     | 3.16          | 3.58     | 0.37  | 16         | 7             | .....  | .....                  |
| 1920..... | 68.4        | 98      | 38     | 6.18          | 11.26    | 3.12  | 13         | 9             | .....  | .....                  |
| 1921..... | 70.4        | 100     | 33     | 3.23          | 5.64     | 1.40  | 18         | 7             | .....  | .....                  |
| 1922..... | 71.1        | 95      | 39     | 6.31          | 11.50    | 2.97  | 12         | 9             | .....  | .....                  |
| 1923..... | 72.5        | 106     | 37     | 2.08          | 5.44     | 0.72  | 18         | 8             | .....  | .....                  |
| 1924..... | 66.8        | 95      | 30     | 4.20          | 7.32     | 1.72  | 11         | 11            | .....  | .....                  |
| 1925..... | 73.6        | 103     | 36     | 3.10          | 6.16     | 0.72  | 17         | 9             | .....  | .....                  |



## Climatological Data for June, 1925

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 34                      | 74.0                         | +5.2                      | 103     | 5    | 45     | 12    | 39                       | 4.62  | +0.62                     | 1.70                 | 0                         | 9                            | 24    | 3          | 3                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 33                      | 68.5                         | +3.7                      | 96      | 5    | 36     | 12    | 45                       | 4.48  | +0.36                     | 1.67                 | 0                         | 11                           | 17    | 3          | 5                            | w.        |                                                                                                                          |
| Culvers Lake†.....                   | Sussex.....     | 848             | 24                      | 71.4                         | +4.7                      | 99      | 5    | 45     | 13    | .....                    | 3.79  | -0.82                     | 0.94                 | 0                         | 10                           | 23    | 4          | 3                            | .....     |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 41                      | 71.4                         | +4.7                      | 99      | 5    | 42     | 12    | 36                       | 3.92  | -0.11                     | 1.35                 | 0                         | 11                           | 7     | 19         | 4                            | .....     |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 24                      | 70.2 <sup>b</sup>            | +4.7                      | 99      | 5    | 38     | 12    | 40                       | 3.32  | -0.47                     | 1.19                 | 0                         | 12                           | 19    | 8          | 3                            | s.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 42                      | 73.6                         | +4.3                      | 99      | 6†   | 45     | 12    | 36                       | 2.46  | -1.47                     | 0.79                 | 0                         | 5                            | 15    | 10         | 5                            | .....     |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 42                      | 70.8 <sup>b</sup>            | +4.0                      | 96      | 3†   | 41     | 12    | 40                       | 3.72  | +0.04                     | 1.16                 | 0                         | 11                           | 16    | 8          | 6                            | w.        |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 70.8 <sup>b</sup>            | +4.0                      | 96      | 3†   | 41     | 12    | 40                       | 3.72  | +0.04                     | 1.16                 | 0                         | 11                           | 16    | 8          | 6                            | w.        |                                                                                                                          |
| Means and extremes.....              |                 |                 |                         | 71.4                         | +4.4                      | 103     | 5    | 36     | 12    | 45                       | 3.76  | -0.26                     | 1.70                 | 0                         | 10                           | 17    | 9          | 4                            | w.        |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point†.....                   | Hudson.....     | 37              | 28                      | 74.2 <sup>b</sup>            | +5.8                      | 99      | 5†   | 53     | 30    | 33                       | 3.16  | -0.62                     | 1.10                 | 0                         | 10                           | 10    | 20         | 0                            | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                         | Morris.....     | 400             | 35                      | 70.8                         | +3.2                      | 99      | 5    | 43     | 12†   | 34                       | 4.64  | +0.97                     | 0.92                 | 0                         | 11                           | 21    | 0          | 9                            | sw.       |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 21                      | 74.2                         | +3.7                      | 101     | 6    | 49     | 12†   | 37                       | 6.16  | +2.10                     | 1.71                 | 0                         | 9                            | 25    | 5          | 0                            | .....     |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 46                      | 74.2                         | +3.7                      | 101     | 6    | 49     | 12†   | 37                       | 3.67  | +0.05                     | 1.20                 | 0                         | 8                            | 17    | 9          | 4                            | nw.       |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 39                      | 74.8                         | +5.6                      | 100     | 4    | 46     | 12    | 36                       | 2.30  | -1.54                     | 0.61                 | 0                         | 9                            | 25    | 3          | 2                            | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood†.....                       | Bergen.....     | 90              | 37                      | 71.5                         | +3.9                      | 97      | 4†   | 45     | 17    | 34                       | 4.22  | +0.53                     | 1.40                 | 0                         | 13                           | 12    | 13         | 5                            | nw.       |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 27                      | 75.2                         | +4.3                      | 101     | 5†   | 54     | 11    | 40                       | 3.25  | -0.25                     | 1.14                 | 0                         | 11                           | 9     | 17         | 4                            | nw.       |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 38                      | 74.8                         | +5.1                      | 97      | 5†   | 50     | 11    | 32                       | 2.20  | -1.71                     | 0.86                 | 0                         | 9                            | 21    | 5          | 4                            | sw.       |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 22                      | 72.6                         | +4.6                      | 101     | 5    | 46     | 12†   | 36                       | 5.70  | +2.18                     | 1.91                 | 0                         | 12                           | 16    | 8          | 6                            | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                       |
| New Brunswick.....                   | Middlesex.....  | 110             | 72                      | 74.7                         | +5.6                      | 97      | 4†   | 47     | 12†   | 36                       | 2.01  | -1.75                     | 1.39                 | 0                         | 6                            | 19    | 8          | 3                            | sw.       |                                                                                                                          |
| New Milford†.....                    | Bergen.....     | 9               | 5                       | 75.6                         | +5.8                      | 101     | 4†   | 52     | 12†   | 37                       | 3.35  | +1.25                     | 1.25                 | 0                         | 11                           | 13    | 3          | 14                           | se.       |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 54                      | 75.6                         | +5.8                      | 101     | 4†   | 52     | 12†   | 37                       | 5.50  | +1.38                     | 1.46                 | 0                         | 11                           | 13    | 3          | 14                           | se.       |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 37                      | 72.4                         | +3.8                      | 100     | 6    | 44     | 12    | 37                       | 3.18  | -0.56                     | 0.94                 | 0                         | 12                           | 13    | 15         | 2                            | sw.       | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                     |
| Ridgefield.....                      | Bergen.....     | 80              | 7                       | 72.4                         | .....                     | 97      | 5†   | 49     | 17    | 29                       | 3.30  | -0.97                     | 0.97                 | 0                         | 11                           | 19    | 8          | 3                            | nw.       |                                                                                                                          |
| Somersville.....                     | Somerset.....   | 70              | 42                      | 74.8                         | +5.7                      | 99      | 4†   | 44     | 17    | 41                       | 1.76  | -1.98                     | 0.99                 | 0                         | 7                            | 27    | 0          | 3                            | w.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 55                      | 73.1                         | +4.6                      | 97      | 5    | 53     | 11†   | 30                       | 5.17  | +1.62                     | 2.42                 | 0                         | 8                            | 11    | 13         | 6                            | w.        |                                                                                                                          |
| Woodcliff Lake†.....                 | Bergen.....     | 100             | 5                       | 73.1                         | +4.6                      | 97      | 5    | 53     | 11†   | 30                       | 2.66  | .....                     | 1.00                 | 0                         | 8                            | ..... | .....      | .....                        | .....     | U. S. Weather Bureau.                                                                                                    |
| New York, N. Y.....                  |                 | 365             | 55                      | 73.2                         | +4.4                      | 96      | 6    | 53     | 11    | 34                       | 2.31  | -0.95                     | 1.08                 | 0                         | 9                            | 5     | 19         | 6                            | nw.       |                                                                                                                          |
| Means and extremes.....              |                 |                 |                         | 73.6                         | +4.7                      | 101     | 4†   | 43     | 12†   | 41                       | 3.66  | +0.03                     | 2.42                 | 0                         | 10                           | 17    | 9          | 4                            | nw.       |                                                                                                                          |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belleplain.....                      | Cape May.....   | 30              | 31                      | 74.2                         | +5.5                      | 102     | 6    | 38     | 12    | 49                       | 1.89  | -1.33                     | 0.57                 | 0                         | 8                            | 16    | 12         | 2                            | se.       | Thomas J. Durell.<br>Harold K. Tryon.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                       | Cumberland..... | 90              | 44                      | 76.7                         | +4.6                      | 100     | 5†   | 48     | 17    | 38                       | 0.88  | -2.85                     | 0.36                 | 0                         | 8                            | 14    | 11         | 5                            | sw.       |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 39                      | 77.7 <sup>b</sup>            | +8.0                      | 102     | 5†   | 47     | 12    | 42                       | 1.80  | -2.08                     | 0.90                 | 0                         | 4                            | 26    | 4          | 0                            | w.        |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 29                      | 77.7 <sup>b</sup>            | +8.0                      | 102     | 5†   | 47     | 12    | 42                       | 1.80  | -2.08                     | 0.90                 | 0                         | 4                            | 26    | 4          | 0                            | w.        |                                                                                                                          |
| Freehold.....                        | Monmouth.....   | 180             | 25                      | 74.4 <sup>a</sup>            | +5.4                      | 98      | 3†   | 45     | 12    | 42                       | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | County Agr'l Agent.<br>Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.                               |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | 74.4 <sup>a</sup>            | +5.4                      | 98      | 3†   | 45     | 12    | 42                       | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | 74.4 <sup>a</sup>            | +5.4                      | 98      | 3†   | 45     | 12    | 42                       | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 75.1 <sup>a</sup>            | +4.8                      | 99      | 5    | 44     | 12    | 39                       | 2.51  | -1.26                     | 1.15                 | 0                         | 10                           | 26    | 4          | 0                            | sw.       |                                                                                                                          |
| Indian Mills†.....                   | Burlington..... | 76              | 36                      | 75.4                         | +5.6                      | 102     | 5    | 43     | 17    | 42                       | 2.61  | -1.52                     | 1.90                 | 0                         | 6                            | 13    | 16         | 1                            | sw.       | James M. Armstrong.<br>R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.               |
| Lakewood.....                        | Ocean.....      | 54              | 21                      | 74.9                         | +7.4                      | 100     | 5    | 43     | 12    | 37                       | 1.43  | -2.28                     | 0.38                 | 0                         | 10                           | 21    | 4          | 5                            | nw.       |                                                                                                                          |
| Moorestown.....                      | Burlington..... | 75              | 62                      | 76.4                         | +6.4                      | 101     | 6    | 47     | 12    | 38                       | 1.62  | -2.10                     | 0.60                 | 0                         | 5                            | 18    | 10         | 2                            | sw.       |                                                                                                                          |
| Northfield†.....                     | Atlantic.....   | 25              | 18                      | 72.8                         | .....                     | 98      | 5†   | 43     | 12    | 38                       | 2.26  | -1.41                     | 0.80                 | 0                         | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville†.....                  | Atlantic.....   | 26              | 27                      | 72.8                         | .....                     | 98      | 5†   | 43     | 12    | 38                       | 1.59  | -2.04                     | 0.78                 | 0                         | 8                            | 23    | 5          | 2                            | s.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes<br>U. S. Weather Bureau.      |
| Runyon†.....                         | Middlesex.....  | 18              | .....                   | 73.0                         | .....                     | 100     | 5†   | 37     | 12    | 54                       | 2.40  | .....                     | 1.18                 | 0                         | 7                            | 20    | 10         | 0                            | w.        |                                                                                                                          |
| Trenton.....                         | Mercer.....     | 190             | 53                      | 75.2                         | +5.7                      | 99      | 7    | 52     | 13    | 28                       | 0.72  | -2.77                     | 0.21                 | 0                         | 9                            | 5     | 17         | 8                            | sw.       |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 32                      | 74.8 <sup>b</sup>            | +6.4                      | 101     | 5    | 44     | 17    | 37                       | 1.39  | -2.44                     | 0.56                 | 0                         | 7                            | 27    | 2          | 1                            | sw.       |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 56                      | 78.1                         | +6.7                      | 100     | 5    | 56     | 11    | 28                       | 1.16  | -2.14                     | 0.51                 | 0                         | 8                            | 12    | 13         | 5                            | sw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Philadelphia, Pa.....                |                 | 117             | 55                      | 78.1                         | +6.7                      | 100     | 5    | 56     | 11    | 28                       | 1.16  | -2.14                     | 0.51                 | 0                         | 8                            | 12    | 13         | 5                            | sw.       |                                                                                                                          |
| Means and extremes.....              |                 |                 |                         | 75.0                         | +6.0                      | 102     | 5†   | 37     | 12    | 54                       | 1.88  | -1.89                     | 1.90                 | 0                         | 8                            | 18    | 10         | 2                            | sw.       |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 36                      | 71.5 <sup>d</sup>            | +4.1                      | 99      | 6    | .....  | ..... | .....                    | 3.84  | +0.22                     | 2.08                 | 0                         | 8                            | 19    | 6          | 5                            | w.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 51                      | 72.4                         | +5.8                      | 95      | 6    | 57     | 12    | 26                       | 2.90  | -0.13                     | 1.13                 | 0                         | 8                            | 17    | 8          | 5                            | sw.       |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 41                      | 73.2                         | +5.5                      | 97      | 6    | 55     | 12    | 27                       | 2.47  | -0.57                     | 1.47                 | 0                         | 7                            | 10    | 11         | 9                            | s.        |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 18                      | 71.6                         | +5.4                      | 99      | 6    | 52     | 12    | 28                       | 4.48  | +0.68                     | 1.77                 | 0                         | 7                            | 18    | 10         | 2                            | s.        |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 27                      | 72.5                         | +4.7                      | 96      | 5    | 56     | 11    | 33                       | 3.41  | -0.55                     | 2.10                 | 0                         | 10                           | 9     | 16         | 5                            | s.        | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....              |                 |                 |                         | 72.2                         | +5.1                      | 99      | 6    | 52     | 12    | 33                       | 3.42  | -0.07                     | 2.10                 | 0                         | 8                            | 15    | 10         | 5                            | s.        |                                                                                                                          |
| For the State.....                   |                 |                 |                         | 73.6                         | +5.1                      | 103     | 5    | 36     | 12    | 54                       | 3.10  | -0.64                     | 2.42                 | 0                         | 9                            | 17    | 9          | 4                            | sw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



Daily Precipitation for June, 1925

| Stations                           | Drainage Basin  | Day of month |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      | Total |      |
|------------------------------------|-----------------|--------------|-----|-----|---|---|---|---|----|------|-----|----|----|----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|------|------|------|------|-------|------|
|                                    |                 | 1            | 2   | 3   | 4 | 5 | 6 | 7 | 8  | 9    | 10  | 11 | 12 | 13 | 14  | 15   | 16   | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24   | 25  | 26   | 27   | 28   | 29   | 30   | 31   |       |      |
| The Highlands and Killarney Valley |                 |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Belvidere.....                     | Delaware.....   |              | T.  |     |   |   |   |   | T. | .32  |     |    |    |    | .20 | T.   | 1.70 |     |     |     | .10 | T.  | T.  | .03 |      | .65 |      |      | .05  | 1.27 | .30  |      | 4.62  |      |
| Charlotteburg.....                 | Passaic.....    | .14          |     |     |   |   |   |   |    | .30  |     |    |    |    | .10 | 1.67 | .14  |     |     |     | .12 | .18 | .09 |     | 1.12 |     |      | .12  | .50  |      |      | 4.48 |       |      |
| Culvers Lake.....                  | Delaware.....   |              | .30 |     |   |   |   |   |    | .02  |     |    |    |    | .03 | .84  | .05  |     | .05 |     |     | .03 |     | .25 |      | .94 |      |      | .85  | .48  |      | 3.79 |       |      |
| Dover.....                         | Passaic.....    | .08          |     |     |   |   |   |   |    | .15  |     |    |    |    | .04 | 1.06 | .05  |     |     |     | .31 | .36 |     |     |      | .52 |      |      | .50  | .85  |      | 3.92 |       |      |
| Layton.....                        | Delaware.....   |              | .16 |     |   |   |   |   |    | .23  |     |    |    |    | .04 | .47  |      | .03 |     | .23 | .04 | .05 | .20 |     | .88  |     |      |      | 1.16 | .03  |      | 3.52 |       |      |
| Newton.....                        | Delaware.....   |              |     |     |   |   |   |   |    |      |     |    |    |    |     | T.   | .36  | T.  |     |     |     |     | T.  | T.  | T.   | .55 |      |      | .58  | .79  |      | 2.46 |       |      |
| Phillipsburg.....                  | do.....         |              |     |     |   |   |   |   | T. | .18  |     |    |    |    |     |      | .36  | T.  |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Sussex.....                        | Hudson.....     |              | .09 | .21 |   |   |   |   |    | .04  | .07 |    |    |    |     | .03  | .77  |     | .08 |     |     |     |     | .39 |      | .84 | .04  |      |      | 1.16 |      |      | 3.72  |      |
| The Red Sandstone Plain.           |                 |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Bergen Point**.....                | Coast.....      |              |     |     |   |   |   |   |    | .03  |     |    |    |    | .08 | .03  | .92  | T.  |     |     | .31 | .07 | T.  |     |      | .61 |      |      | .01  | .99  | .11  |      | 3.16  |      |
| Boonton   .....                    | Passaic.....    |              | T.  |     |   |   |   |   |    | .82  |     |    |    |    | T.  | .28  | .92  |     | .04 |     |     | .01 | .20 | .03 |      | .50 | .26  |      | .75  | .83  |      | 4.64 |       |      |
| Chatham   .....                    | do.....         |              | T.  |     |   |   |   |   |    | .78  |     |    |    |    |     | .13  | 1.68 |     |     |     |     | .43 | .06 |     |      | .26 | 1.71 | T.   | T.   | .19  | .92  |      | 6.16  |      |
| Elizabeth.....                     | Coast.....      |              |     |     |   |   |   |   |    | .10  |     |    |    |    | .09 | 1.10 |      |     |     |     |     |     | .01 |     | 1.17 |     |      |      | .13  | 1.07 |      | 3.67 |       |      |
| Flemington.....                    | Raritan.....    |              |     |     |   |   |   |   |    | .31  |     |    |    |    | .11 | .61  |      | .01 |     |     |     | T.  | T.  | .05 |      | .52 |      |      | .22  | .26  | .21  |      | 2.30  |      |
| Highwood.....                      | Hackensack..... | .07          | .02 |     |   |   |   |   |    | .28  |     |    |    |    | .22 | .67  |      | .10 |     |     | .54 | .02 |     | .24 |      | .56 |      |      | .10  | .83  | .57  |      | 4.22  |      |
| Jersey City.....                   | Coast.....      | .01          | T.  |     |   |   |   |   |    | .10  |     |    |    |    | .32 |      | 1.14 |     | T.  | T.  | .03 | .04 | T.  | .02 |      | .65 | T.   |      | .02  | .77  | .15  |      | 3.25  |      |
| Lambertville.....                  | Delaware.....   |              |     |     |   |   |   |   |    | .02  | .01 |    |    |    | T.  | .17  |      | .07 |     |     |     | .06 |     | .49 |      | .49 |      |      | .01  | .86  | .51  |      | 2.20  |      |
| Little Falls   .....               | Passaic.....    |              | .09 | T.  |   |   |   |   |    | 1.11 |     |    |    |    |     | .38  | 1.25 |     | .06 |     |     | .07 | .02 | .07 |      | .45 | .24  |      | .05  | 1.91 |      | 5.70 |       |      |
| New Brunswick.....                 | Raritan.....    |              |     |     |   |   |   |   |    | T.   |     |    |    |    | T.  | .14  |      | T.  |     |     |     | T.  | T.  | .03 | .07  |     |      | T.   | .04  | 1.39 | .34  |      | 2.01  |      |
| New Milford**.....                 | Hackensack..... |              |     |     |   |   |   |   |    | .10  |     |    |    |    | .26 | .15  | .27  | .10 |     |     | .17 | .02 |     | .10 |      | .68 |      |      | .25  | 1.25 |      | 3.35 |       |      |
| Paterson.....                      | Passaic.....    |              | .24 |     |   |   |   |   |    | .88  |     |    |    |    |     | .16  | .90  |     |     | .90 | .03 |     | .08 | .10 |      | .70 |      |      | .05  | .39  | 1.07 |      | 5.50  |      |
| Plainfield.....                    | Raritan.....    |              |     |     |   |   |   |   |    | .06  |     |    |    |    | .08 | .80  |      | .02 |     | .21 | .14 | .06 | .01 |     | .75  |     | T.   | .03  | .94  | .08  |      | 3.18 |       |      |
| Ridgefield.....                    | Hackensack..... | T.           | .02 |     |   |   |   |   |    | .45  |     |    |    |    | .15 | .68  |      | .05 |     | .06 | .04 |     | .07 |     | .80  |     |      | .01  | .97  |      |      | 3.30 |       |      |
| Somerville.....                    | Raritan.....    |              |     |     |   |   |   |   |    | .10  |     |    |    |    | .03 | .18  |      | T.  |     |     |     |     | .04 |     |      | .42 |      |      |      | .16  | .83  |      | 1.76  |      |
| South Orange.....                  | Rahway.....     |              |     |     |   |   |   |   |    | .11  |     |    |    |    | T.  | .135 | .03  |     |     | .24 | .16 | T.  |     |     | 2.42 |     |      |      | .17  | .69  | T.   |      | 5.17  |      |
| Woodcliff Lake**.....              | Hackensack..... |              |     |     |   |   |   |   |    | .29  |     |    |    |    | .18 | .21  | .16  | .09 |     |     |     |     |     |     |      | .63 |      |      | .10  | 1.00 |      |      | 2.66  |      |
| New York, N. Y***.....             | Coast.....      | T.           | T.  |     |   |   |   |   |    | T.   |     |    |    |    | .09 | .02  | .64  | T.  | T.  |     | .02 | .01 | T.  | .03 | T.   | .41 | T.   |      | .01  | 1.08 | T.   |      | 2.31  |      |
| The Southern Interior.             |                 |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Belleplain.....                    | Tuckahoe.....   |              |     |     |   |   |   |   |    | .12  |     |    |    |    |     | .15  |      |     |     |     |     |     | .07 | .09 |      |     | .33  | .04  |      | .52  |      | .57  |       | 1.89 |
| Bridgeton.....                     | Coast.....      |              |     |     |   |   |   |   | T. | .01  |     |    |    |    |     | T.   | .07  |     |     |     |     | .16 |     | .08 |      | .35 | .01  |      | T.   |      | .20  |      | 0.88  |      |
| Burlington.....                    | Delaware.....   |              |     |     |   |   |   |   |    |      |     |    |    |    |     | .54  |      |     |     |     |     | .33 |     | .03 |      |     |      |      |      | .90  |      |      | 1.80  |      |
| Clayton.....                       | Delaware.....   |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Freehold.....                      | Coast.....      |              |     |     |   |   |   |   |    | .01  |     |    |    |    |     | .35  |      | .15 |     |     |     |     |     | .16 |      | .10 | .20  |      | .06  | 1.02 | .98  |      | 3.03  |      |
| Hammonton.....                     | Mullica.....    |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Hightstown.....                    | Raritan.....    |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Imlaystown.....                    | Delaware.....   |              |     |     |   |   |   |   |    | .12  |     |    |    |    | .04 | .16  |      | .03 |     |     | .28 |     | .11 |     | .34  |     | 1.15 | .15  | .13  |      |      |      | 2.51  |      |
| Indian Mills.....                  | Mullica.....    |              |     |     |   |   |   |   |    | 1.90 |     |    |    |    | T.  | .12  |      | .06 |     |     |     | T.  | .12 |     | .22  | .13 |      | .06  | T.   | .18  |      |      | 2.61  |      |
| Lakewood.....                      | Metedeconk..... |              |     |     |   |   |   |   |    | .02  |     |    |    |    | .23 | .14  |      | .10 |     |     |     | .04 | .04 |     | .38  | .03 |      | .34  |      | .11  |      |      | 1.43  |      |
| Moorestown.....                    | Delaware.....   |              |     |     |   |   |   |   |    | .02  |     |    |    |    |     | .30  |      |     |     |     |     |     | .30 | .60 |      |     |      | .40  |      |      |      |      | 1.62  |      |
| Northfield.....                    | Coast.....      |              |     |     |   |   |   |   |    | .04  |     |    |    |    | T.  | .17  |      | .03 |     |     | .22 |     | .05 |     | .17  |     |      | .78  |      | .80  |      | 2.26 |       |      |
| Pleasantville   .....              | Coast.....      |              |     |     |   |   |   |   |    | .04  |     |    |    |    |     | T.   | .01  |     | .03 |     |     | .31 |     | .07 |      | .19 |      |      | .78  | T.   | .46  |      | 1.89  |      |
| Runyon.....                        | Coast.....      |              |     |     |   |   |   |   |    |      |     |    |    |    | .21 |      |      |     |     |     | .08 |     | .18 |     | .20  |     | .47  | .08  | .49  | .69  |      | 2.40 |       |      |
| Trenton***.....                    | Delaware.....   |              |     |     |   |   |   |   |    | .20  | .01 |    |    |    | T.  | .01  | .02  | T.  | T.  |     | .16 | T.  | T.  | .06 | T.   | .13 |      | T.   | .07  | T.   | .06  |      | 0.72  |      |
| Tuckerton.....                     | Coast.....      |              |     |     |   |   |   |   |    |      |     |    |    |    | .10 |      |      | .02 |     |     |     | .06 |     | .10 | .35  |     |      | .56  |      | .20  |      | 1.39 |       |      |
| Vineland.....                      | Maurice.....    |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Phila., Pa***.....                 | Delaware.....   |              |     |     |   |   |   |   | T. | .01  | T.  |    |    |    | T.  | T.   | .26  |     | T.  |     | T.  |     | .03 | .19 | T.   | .51 |      |      | .12  | .01  | .03  |      | 1.16  |      |
| The Sea Coast.                     |                 |              |     |     |   |   |   |   |    |      |     |    |    |    |     |      |      |     |     |     |     |     |     |     |      |     |      |      |      |      |      |      |       |      |
| Asbury Park.....                   | Coast.....      |              |     |     |   |   |   |   |    | .02  |     |    |    |    | .48 | 2.08 |      | .11 |     |     |     |     |     |     | .23  | .02 |      | .58  | .28  | .04  |      | 3.84 |       |      |
| Atlantic City***.....              | do.....         |              |     |     |   |   |   |   |    | .04  |     |    |    |    | T.  | .28  | .06  |     |     | .44 |     | T.  | .03 | T.  | .06  |     | .13  |      | 1.13 |      | .86  |      | 2.90  |      |
| Cape May City.....                 | do.....         |              |     |     |   |   |   |   |    | T.   | .15 |    |    |    | .28 |      |      | T.  |     |     |     |     | .02 |     | .07  | .05 | T.   | 1.47 |      | .43  |      | 2.47 |       |      |
| Long Branch**.....                 | do.....         |              |     |     |   |   |   |   |    | .32  |     |    |    |    |     | .56  |      |     |     |     | T.  | .05 | T.  | .09 |      | .14 |      | 1.55 | 1.77 |      |      | 4.48 |       |      |
| Sandy Hook***.....                 | do.....         |              |     |     |   |   |   |   |    | .03  |     |    |    |    | T.  | .35  | T.   | T.  |     |     | .53 | .09 | T.  | .02 |      | .10 |      | .05  | .14  | 2.08 | .02  |      | 3.41  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

| Miscellaneous Data    |              |         |      |        |      |                 |                |           |      |                                         |                                        |               |  |  |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-----------------------------------------|----------------------------------------|---------------|--|--|
| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                                |                                        | Sun-<br>shine |  |  |
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m |               |  |  |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                         |                                        |               |  |  |
| Atlantic City.....    | 29.98        | 30.30   | 13   | 29.62  | 18   | 17.4            | 39             | nw.       | 16   | 76                                      | 76                                     | 72            |  |  |
| Cape May City.....    | 30.02        | 30.32   | 12   | 29.70  | 18   | 6.9             | 18             | s.        | 29   | 75                                      | 78                                     | .....         |  |  |
| Long Branch.....      |              |         |      |        |      |                 | 39             | nw.       | 16   |                                         |                                        |               |  |  |
| New York, N. Y.....   | 29.97        | 30.35   | 12   | 29.58  | 18   | 16.2            | 64             | nw.       | 16   | 70                                      | 64                                     | 70            |  |  |
| Philadelphia, Pa..... | 29.98        | 30.32   | 12   | 29.62  | 18   | 8.6             | 27             | nw.       | 16   | 72                                      | 60                                     | 76            |  |  |
| Ridgefield.....       | 29.97        | 30.34   | 12   | 29.57  | 18   |                 |                |           |      |                                         |                                        |               |  |  |
| Sandy Hook.....       | 29.96        | 30.34   | 12   | 29.58  | 18   | 12.9            | 66             | nw.       | 29   | 74                                      | 75                                     | 78            |  |  |
| Trenton.....          | 29.97        | 30.31   | 12   | 29.58  | 18   | 9.9             | 34             | sw.       | 10   | 73                                      | 64                                     | 72            |  |  |



## Daily Temperatures for June, 1925

| Stations                             | 1       | 2  | 3  | 4  | 5   | 6     | 7   | 8     | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30    | 31    | Mean              |                   |
|--------------------------------------|---------|----|----|----|-----|-------|-----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |    |    |     |       |     |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |                   |                   |
| Belvidere.....                       | Maximum | 92 | 94 | 98 | 101 | 103   | 101 | 99    | 86 | 87 | 89 | 78 | 82 | 87 | 89 | 94 | 81 | 84 | 94 | 84 | 89 | 87 | 83 | 82 | 79 | 83 | 90 | 84 | 87 | 78    | ..... | 88.4 <sup>a</sup> |                   |
|                                      | Minimum | 61 | 61 | 65 | 70  | 69    | 67  | 62    | 64 | 61 | 63 | 50 | 45 | 48 | 47 | 65 | 66 | 67 | 63 | 59 | 56 | 54 | 52 | 63 | 46 | 60 | 57 | 59 | 66 | 63    | 58    | .....             | 59.6              |
| Charlotteburg.....                   | Maximum | 90 | 90 | 94 | 95  | 96    | 94  | 92    | 82 | 83 | 85 | 72 | 75 | 84 | 86 | 90 | 80 | 80 | 87 | 80 | 82 | 79 | 79 | 75 | 71 | 78 | 76 | 83 | 82 | 75    | ..... | 83.0              |                   |
|                                      | Minimum | 50 | 58 | 60 | 68  | 64    | 62  | 58    | 52 | 56 | 56 | 46 | 36 | 39 | 59 | 60 | 63 | 45 | 50 | 56 | 48 | 54 | 48 | 57 | 37 | 50 | 57 | 49 | 65 | 60    | 57    | .....             | 54.0              |
| Dover.....                           | Maximum | 90 | 91 | 95 | 97  | 99    | 98  | 96    | 83 | 84 | 88 | 78 | 75 | 78 | 86 | 92 | 80 | 82 | 90 | 80 | 85 | 83 | 82 | 81 | 75 | 75 | 81 | 86 | 77 | 82    | 75    | .....             | 84.8              |
|                                      | Minimum | 62 | 62 | 63 | 71  | 69    | 62  | 62    | 59 | 60 | 63 | 49 | 42 | 45 | 65 | 63 | 60 | 47 | 62 | 50 | 55 | 56 | 53 | 59 | 44 | 59 | 57 | 55 | 68 | 63    | 57    | .....             | 57.9 <sup>a</sup> |
| Layton.....                          | Maximum | 92 | 93 | 95 | 95  | 99    | 96  | 95    | 84 | 84 | 84 | 73 | 76 | 81 | 85 | 92 | 85 | 78 | 88 | 84 | 84 | 82 | 82 | 78 | 78 | 78 | 80 | 78 | 80 | 71    | ..... | 84.1 <sup>b</sup> |                   |
|                                      | Minimum | 63 | 63 | 63 | 63  | 66    | 61  | 58    | 60 | 62 | 60 | 50 | 38 | 41 | 62 | 64 | 64 | 48 | 58 | 58 | 52 | 47 | 56 | 39 | 58 | 54 | 58 | 59 | 53 | 55    | 56    | .....             | 56.4 <sup>b</sup> |
| Newton.....                          | Maximum | 91 | 95 | 97 | 98  | 98    | 99  | 99    | 80 | 85 | 90 | 76 | 79 | 84 | 88 | 95 | 82 | 81 | 93 | 80 | 87 | 86 | 85 | 82 | 79 | 82 | 83 | 90 | 87 | 84    | 77    | .....             | 87.1              |
|                                      | Minimum | 59 | 61 | 65 | 63  | 69    | 67  | 63    | 63 | 63 | 63 | 53 | 45 | 49 | 68 | 64 | 64 | 48 | 65 | 63 | 55 | 57 | 52 | 62 | 47 | 62 | 61 | 61 | 66 | 64    | 61    | .....             | 60.1              |
| Phillipsburg.....                    | Maximum | 91 | 90 | 96 | 94  | ..... | 96  | 93    | 90 | 84 | 87 | 76 | 78 | 82 | 88 | 92 | 85 | 79 | 87 | 84 | 85 | 80 | 79 | 76 | 79 | 70 | 78 | 86 | 80 | 83    | ..... | 84.6 <sup>b</sup> |                   |
|                                      | Minimum | 62 | 60 | 64 | 69  | ..... | 64  | 59    | 62 | 60 | 64 | 50 | 41 | 42 | 65 | 64 | 66 | 42 | 61 | 57 | 54 | 55 | 48 | 59 | 42 | 59 | 55 | 55 | 64 | ..... | 55    | .....             | 57.1 <sup>b</sup> |
| The Red Sandstone Plain.             |         |    |    |    |     |       |     |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |                   |                   |
| Bergen Point.....                    | Maximum | 91 | 87 | 98 | 98  | 99    | 99  | 98    | 83 | 76 | 93 | 76 | 75 | 71 | 86 | 93 | 82 | 75 | 93 | 82 | 78 | 83 | 82 | 81 | 75 | 82 | 83 | 79 | 75 | ..... | 75    | .....             | 84.4 <sup>a</sup> |
|                                      | Minimum | 65 | 68 | 65 | 74  | 75    | 76  | 73    | 59 | 59 | 62 | 55 | 57 | 60 | 56 | 67 | 67 | 67 | 67 | 62 | 61 | 62 | 62 | 64 | 57 | 64 | 63 | 67 | 69 | ..... | 53    | .....             | 63.9 <sup>b</sup> |
| Boonton§§.....                       | Maximum | 89 | 92 | 93 | 96  | 99    | 98  | 97    | 84 | 83 | 87 | 75 | 75 | 78 | 83 | 89 | 80 | 77 | 89 | 82 | 85 | 83 | 81 | 79 | 77 | 76 | 80 | 86 | 78 | 83    | 74    | .....             | 84.3              |
|                                      | Minimum | 64 | 60 | 61 | 66  | 66    | 70  | ..... | 59 | 58 | 60 | 51 | 43 | 43 | 49 | 59 | 65 | 45 | 61 | 60 | 53 | 55 | 48 | 59 | 43 | 59 | 54 | 54 | 67 | 63    | 59    | .....             | 57.4 <sup>a</sup> |
| Elizabeth.....                       | Maximum | 92 | 91 | 98 | 99  | 100   | 101 | 100   | 89 | 82 | 93 | 84 | 74 | 79 | 87 | 96 | 91 | 78 | 94 | 84 | 89 | 85 | 85 | 83 | 78 | 84 | 85 | 86 | 81 | 88    | 78    | .....             | 87.8              |
|                                      | Minimum | 55 | 64 | 64 | 65  | 73    | 72  | 66    | 60 | 61 | 64 | 51 | 49 | 51 | 65 | 65 | 67 | 49 | 65 | 60 | 57 | 59 | 54 | 53 | 50 | 63 | 60 | 60 | 70 | 67    | 62    | .....             | 60.7              |
| Flemington.....                      | Maximum | 91 | 97 | 95 | 100 | 99    | 98  | 97    | 86 | 85 | 91 | 81 | 80 | 83 | 86 | 94 | 86 | 82 | 94 | 85 | 88 | 88 | 89 | 85 | 78 | 83 | 84 | 91 | 81 | 86    | 79    | .....             | 88.1              |
|                                      | Minimum | 63 | 63 | 64 | 69  | 71    | 74  | 68    | 62 | 61 | 64 | 52 | 46 | 49 | 66 | 63 | 68 | 48 | 65 | 60 | 56 | 62 | 53 | 65 | 50 | 62 | 62 | 60 | 71 | 67    | 65    | .....             | 61.6              |
| Highwood.....                        | Maximum | 91 | 85 | 93 | 97  | 97    | 96  | 95    | 82 | 76 | 90 | 76 | 77 | 79 | 82 | 90 | 80 | 78 | 80 | 80 | 83 | 82 | 83 | 80 | 75 | 75 | 81 | 81 | 75 | 81    | 75    | .....             | 83.2              |
|                                      | Minimum | 63 | 63 | 63 | 67  | 67    | 66  | 61    | 58 | 60 | 63 | 53 | 47 | 48 | 65 | 62 | 67 | 45 | 65 | 59 | 58 | 59 | 53 | 60 | 46 | 62 | 58 | 58 | 70 | 67    | 62    | .....             | 59.8              |
| Jersey City.....                     | Maximum | 91 | 89 | 96 | 99  | 101   | 101 | 100   | 85 | 80 | 91 | 77 | 74 | 76 | 85 | 94 | 82 | 77 | 94 | 81 | 83 | 83 | 84 | 82 | 75 | 82 | 82 | 84 | 79 | 85    | 76    | .....             | 85.6              |
|                                      | Minimum | 66 | 68 | 70 | 75  | 77    | 80  | 60    | 60 | 62 | 64 | 54 | 60 | 58 | 65 | 69 | 65 | 57 | 67 | 63 | 62 | 64 | 63 | 62 | 62 | 61 | 64 | 67 | 68 | 68    | 60    | .....             | 64.7              |
| Lambertville.....                    | Maximum | 88 | 96 | 95 | 96  | 97    | 97  | 96    | 83 | 85 | 88 | 74 | 80 | 83 | 87 | 93 | 81 | 83 | 91 | 80 | 86 | 82 | 85 | 81 | 79 | 84 | 83 | 90 | 81 | 86    | 75    | .....             | 86.2              |
|                                      | Minimum | 63 | 68 | 68 | 72  | 75    | 74  | 73    | 61 | 61 | 64 | 50 | 53 | 51 | 65 | 66 | 68 | 60 | 66 | 59 | 59 | 61 | 58 | 64 | 63 | 62 | 62 | 61 | 69 | 67    | 59    | .....             | 63.4              |
| Little Falls§§.....                  | Maximum | 92 | 92 | 97 | 99  | 101   | 99  | 98    | 82 | 83 | 90 | 78 | 77 | 77 | 90 | 93 | 81 | 80 | 92 | 84 | 80 | 83 | 83 | 82 | 78 | 76 | 83 | 84 | 79 | 85    | 75    | .....             | 85.8              |
|                                      | Minimum | 67 | 62 | 63 | 70  | 68    | 68  | 62    | 59 | 60 | 62 | 52 | 46 | 46 | 61 | 62 | 65 | 47 | 63 | 60 | 55 | 59 | 52 | 59 | 46 | 61 | 57 | 57 | 69 | 65    | 61    | .....             | 59.5              |
| New Brunswick.....                   | Maximum | 89 | 94 | 96 | 97  | 97    | 97  | 96    | 92 | 82 | 91 | 89 | 76 | 80 | 87 | 94 | 89 | 82 | 94 | 90 | 86 | 84 | 85 | 81 | 78 | 85 | 83 | 89 | 80 | 87    | 76    | .....             | 87.5              |
|                                      | Minimum | 65 | 64 | 63 | 71  | 72    | 72  | 68    | 61 | 60 | 65 | 53 | 47 | 51 | 64 | 66 | 67 | 47 | 65 | 62 | 57 | 60 | 56 | 64 | 52 | 62 | 61 | 60 | 70 | 66    | 65    | .....             | 61.9              |
| Paterson.....                        | Maximum | 96 | 91 | 99 | 101 | 101   | 101 | 98    | 97 | 81 | 91 | 87 | 79 | 81 | 88 | 95 | 86 | 79 | 92 | 88 | 88 | 85 | 85 | 83 | 80 | 73 | 83 | 87 | 85 | 87    | 77    | .....             | 88.1              |
|                                      | Minimum | 67 | 66 | 68 | 73  | 75    | 74  | 71    | 60 | 62 | 64 | 54 | 52 | 53 | 66 | 66 | 67 | 52 | 64 | 62 | 61 | 61 | 56 | 61 | 54 | 62 | 59 | 61 | 79 | 67    | 62    | .....             | 63.0              |
| Plainfield.....                      | Maximum | 91 | 91 | 97 | 98  | 99    | 100 | 99    | 85 | 83 | 90 | 77 | 74 | 76 | 86 | 95 | 83 | 78 | 93 | 81 | 83 | 83 | 84 | 82 | 75 | 82 | 82 | 84 | 79 | 85    | 76    | .....             | 85.7              |
|                                      | Minimum | 65 | 60 | 62 | 69  | 70    | 68  | 62    | 60 | 60 | 60 | 51 | 44 | 47 | 62 | 62 | 60 | 45 | 63 | 58 | 56 | 56 | 51 | 63 | 48 | 61 | 58 | 57 | 68 | 66    | 58    | .....             | 59.0              |
| Ridgefield.....                      | Maximum | 90 | 88 | 93 | 96  | 97    | 97  | 96    | 76 | 76 | 88 | 77 | 77 | 76 | 83 | 89 | 81 | 76 | 89 | 82 | 84 | 82 | 81 | 77 | 77 | 80 | 83 | 77 | 82 | 74    | 81    | .....             | 83.5              |
|                                      | Minimum | 66 | 66 | 65 | 73  | 71    | 73  | 67    | 59 | 61 | 61 | 53 | 50 | 51 | 65 | 65 | 61 | 49 | 66 | 61 | 59 | 61 | 54 | 60 | 50 | 62 | 59 | 62 | 70 | 67    | 55    | .....             | 61.3              |
| Somerville.....                      | Maximum | 91 | 96 | 98 | 99  | 99    | 99  | 99    | 95 | 87 | 92 | 88 | 77 | 83 | 87 | 95 | 83 | 85 | 95 | 92 | 88 | 86 | 86 | 84 | 82 | 84 | 85 | 91 | 84 | 88    | 81    | .....             | 89.9 <sup>a</sup> |
|                                      | Minimum | 61 | 61 | 62 | 66  | 68    | 67  | 64    | 61 | 61 | 62 | 50 | 46 | 50 | 65 | 61 | 68 | 44 | 65 | 60 | 57 | 56 | 47 | 65 | 49 | 62 | 58 | 57 | 70 | 68    | 64    | .....             | 59.8              |
| South Orange.....                    | Maximum | 87 | 88 | 94 | 95  | 97    | 96  | 94    | 79 | 81 | 89 | 76 | 74 | 71 | 86 | 92 | 79 | 83 | 90 | 81 | 85 | 82 | 80 | 80 | 74 | 80 | 81 | 83 | 77 | 84    | 74    | .....             | 83.7              |
|                                      | Minimum | 67 | 65 | 66 | 72  | 76    | 73  | 69    | 60 | 61 | 64 | 53 | 54 | 53 | 66 | 66 | 59 | 53 | 65 | 62 | 60 | 60 | 59 | 60 | 57 | 64 | 60 | 62 | 67 | 66    | 56    | .....             | 62.5              |
| New York, N. Y.....                  | Maximum | 88 | 85 | 92 | 95  | 96    | 96  | 94    | 75 | 73 | 88 | 73 | 71 | 73 | 81 | 87 | 79 | 73 | 91 | 79 | 82 | 80 | 80 | 77 | 73 | 74 | 81 | 78 | 74 | 81    | 73    | .....             | 81.5              |
|                                      | Minimum | 66 | 69 | 70 | 74  | 78    | 81  | 60    | 59 | 62 | 65 | 53 | 61 | 60 | 65 | 69 | 65 | 58 | 67 | 63 | 62 | 64 | 63 | 62 | 63 | 61 | 64 | 67 | 69 | 68    | 60    | .....             | 64.9              |
| The Southern Interior.               |         |    |    |    |     |       |     |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |       |                   |                   |
| Belleplaine.....                     | Maximum | 93 | 95 | 96 | 96  | 99    | 102 | 96    | 86 | 90 | 91 | 83 | 76 | 82 | 88 | 94 | 95 | 89 | 93 | 87 | 89 | 90 | 90 | 87 |    |    |    |    |    |       |       |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXX. JULY, 1925. No. 7

### GENERAL SUMMARY.

The abnormal warmth of June did not continue into July, and on all days except about six it was slightly subnormal. The monthly mean temperature was 1.6° lower than that for June, which is an inversion of infrequent occurrence. Another feature of notable significance was the rain, both as to amount and frequency. Rain in measureable volume fell 3 days oftener than normal, and the mean monthly amount, 7.37 inches, has been exceeded only in 1887, 1889, 1897, and in 1919. Throughout extensive portions of the northern and southern interior rainfall averaged above 8 inches, while in a narrow zone across the State from Mercer County to Sandy Hook it was mostly under 5 inches. While this large volume of rain has finally accumulated an excess of rain over The Highlands for the year, to date, there still remains an appreciable deficiency in the southern interior. The rains being of brief duration, and several occurrences being at night, many usual outdoor pursuits were not unduly interfered with, except in northern counties where the oats harvest was hampered. Sunshine and clear skies slightly exceeded normal, which was unusual when the excess of rain is considered.

Crop growth, which had been seriously harmed by the drought and heat of June, was very considerably revived by the combined circumstances of generous rains and an absence of burning hot days. Wheat, hay, rye, and potatoes were damaged more or less before the advent of rains which might have averted some of the losses which they permanently sustained. There was a fair degree of recovery in other crops.

No storm warnings were displayed along shore during the month.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 36 stations, was 72.0°, which was 1.5° below normal. The highest temperature was 99° at Indian Mills on the 7th, and the lowest, 39°, at Belleplain on the 1st. The greatest daily range of temperature was 41° at Runyon on the 24th. The highest monthly mean temperature was 75.3° at Bridgeton, and the lowest, 67.2° at Charlotteburg.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +1.3°; Red Sandstone Plain, +1.2°; Southern Interior, +2.3°; Sea Coast, +2.6°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 42 stations, was 7.37 inches, which was 2.78 inches above normal.

The greatest monthly precipitation was 10.09 inches, at Belleplain, and the least, 4.03 inches at Runyon. The greatest amount of precipitation in any 24 consecutive hours was 4.33 inches at Chatham on the 31st. The mean of the number of days on which 0.01 inch or more of precipitation fell was 13, or 3 more than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, +2.58 inches; Red Sandstone Plain, —.40 inch; Southern Interior, —2.75 inches; Sea Coast, —4.08 inches.

### WIND.

The prevailing wind direction was from the South. The wind movement averaged 10 miles per hour, which was about normal. The highest velocity sustained for 5 consecutive minutes, was 57 miles per hour from the southeast at Long Branch on the 31st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was 2 more than normal; partly cloudy, 9, or 2 less than normal; cloudy, 7, or normal. The per cent of possible sunshine was 67, which was 4 per cent above normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.7 feet, and the highest stage was 4.0 feet on the 27th to 31st, inclusive. At Trenton the mean stage was 0.8 foot, which was 0.5 foot below the normal. The highest stage, 2.1 feet, occurred on the 26th and 27th.

The mean atmospheric pressure, reduced to sea level, was 29.95 inches, which was .03 inch below normal. The highest reading was 30.28 inches on the 1st at Cape May City, and the lowest, 29.61 inches on the 16th at Sandy Hook and Trenton.

Thunderstorms occurred on the 2d, 4th, 5th, 7th, 8th, 10th, 12th, 14th to 17th inclusive, 21st, 22d, 25th to 29th inclusive, and 31st. Dense fog was observed on the 6th, 7th, 8th, and 10th. A solar halo was observed on the 1st. Light hail causing very little damage fell on the 16th at Culvers Lake. A heavy windstorm at Riverside on the 16th, caused considerable damage.

### COMPARATIVE DATA FOR JULY

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 75.2        | 100     | 44     | 3.50          | 7.28     | 1.29  | .....      | .....         | .....  | .....                  |
| 1886..... | 73.0        | 98      | 48     | 4.91          | 7.95     | 2.98  | .....      | .....         | .....  | .....                  |
| 1887..... | 77.1        | 102     | 54     | 7.67          | 15.29    | 1.95  | .....      | .....         | .....  | 11                     |
| 1888..... | 71.1        | 95      | 45     | 3.50          | 7.03     | 1.25  | .....      | .....         | .....  | 9                      |
| 1889..... | 73.4        | 95      | 48     | 10.19         | 18.58    | 4.66  | .....      | .....         | .....  | 14                     |
| 1890..... | 72.5        | 101     | 39     | 5.62          | 7.55     | 3.60  | 12         | 11            | 8      | 9                      |
| 1891..... | 70.1        | 95      | 43     | 5.30          | 9.41     | 3.03  | 10         | 11            | 10     | 12                     |
| 1892..... | 74.3        | 105     | 44     | 4.03          | 7.96     | 2.38  | 12         | 14            | 5      | 8                      |
| 1893..... | 73.9        | 102     | 40     | 2.72          | 4.63     | 1.26  | 14         | 13            | 4      | 8                      |
| 1894..... | 75.7        | 106     | 44     | 1.66          | 5.00     | 0.15  | 14         | 12            | 5      | 6                      |
| 1895..... | 70.9        | 99      | 41     | 4.26          | 7.73     | 1.53  | 12         | 12            | 7      | 10                     |
| 1896..... | 75.0        | 98      | 47     | 5.50          | 13.29    | 2.45  | 13         | 10            | 8      | 13                     |
| 1897..... | 74.1        | 102     | 50     | 11.42         | 20.80    | 6.11  | 10         | 11            | 10     | 15                     |
| 1898..... | 75.3        | 107     | 38     | 4.96          | 11.72    | 2.23  | 11         | 13            | 7      | 10                     |
| 1899..... | 74.7        | 98      | 38     | 5.75          | 9.02     | 3.34  | 13         | 11            | 7      | 11                     |
| 1900..... | 75.9        | 104     | 42     | 4.74          | 7.21     | 1.11  | 15         | 12            | 4      | 11                     |
| 1901..... | 77.3        | 107     | 45     | 5.87          | 10.92    | 1.89  | 9          | 13            | 9      | 14                     |
| 1902..... | 73.0        | 100     | 43     | 4.78          | 9.92     | 1.83  | 10         | 12            | 9      | 13                     |
| 1903..... | 73.3        | 100     | 38     | 5.51          | 10.14    | 3.08  | 16         | 10            | 5      | 12                     |
| 1904..... | 72.3        | 98      | 42     | 4.87          | 8.06     | 2.41  | 13         | 10            | 8      | 13                     |
| 1905..... | 74.4        | 102     | 42     | 4.06          | 8.19     | 1.67  | 12         | 13            | 6      | 12                     |
| 1906..... | 72.8        | 94      | 46     | 5.58          | 13.25    | 3.44  | 11         | 14            | 6      | 12                     |
| 1907..... | 73.6        | 96      | 40     | 2.62          | 6.42     | 0.95  | 8          | 12            | 11     | 8                      |
| 1908..... | 75.6        | 106     | 42     | 4.70          | 8.12     | 1.97  | 12         | 13            | 6      | 9                      |
| 1909..... | 71.6        | 99      | 36     | 2.12          | 4.03     | 1.03  | 14         | 14            | 3      | 5                      |
| 1910..... | 75.3        | 99      | 42     | 1.36          | 5.33     | 0.22  | 12         | 12            | 7      | 5                      |
| 1911..... | 76.0        | 104     | 42     | 3.64          | 6.46     | 2.06  | 12         | 12            | 7      | 8                      |
| 1912..... | 73.7        | 100     | 36     | 3.86          | 9.91     | 1.01  | 14         | 10            | 7      | 9                      |
| 1913..... | 74.4        | 100     | 41     | 2.52          | 4.72     | 1.50  | 20         | 9             | 2      | 8                      |
| 1914..... | 71.5        | 97      | 40     | 6.05          | 8.57     | 1.94  | 9          | 11            | 11     | 15                     |
| 1915..... | 72.8        | 98      | 44     | 5.31          | 11.06    | 2.23  | 10         | 13            | 8      | 14                     |
| 1916..... | 74.4        | 97      | 45     | 5.40          | 9.01     | 3.15  | 11         | 9             | 11     | 12                     |
| 1917..... | 74.2        | 104     | 46     | 4.83          | 7.93     | 2.38  | 10         | 11            | 10     | 12                     |
| 1918..... | 72.2        | 104     | 39     | 3.93          | 13.60    | 1.20  | 17         | 9             | 5      | 8                      |
| 1919..... | 73.5        | 103     | 43     | 8.39          | 14.14    | 4.45  | 14         | 7             | 10     | 14                     |
| 1920..... | 71.7        | 96      | 42     | 5.76          | 16.25    | 1.20  | 17         | 10            | 4      | 11                     |
| 1921..... | 76.5        | 99      | 43     | 3.62          | 7.36     | 1.66  | 14         | 9             | 8      | 10                     |
| 1922..... | 73.0        | 98      | 44     | 5.79          | 9.26     | 2.29  | 13         | 9             | 9      | 13                     |
| 1923..... | 71.9        | 102     | 40     | 3.88          | 6.28     | 0.93  | 15         | 8             | 8      | 11                     |
| 1924..... | 71.6        | 98      | 41     | 2.59          | 5.08     | 0.84  | 19         | 8             | 4      | 6                      |
| 1925..... | 72.0        | 99      | 39     | 7.37          | 10.09    | 4.03  | 15         | 9             | 7      | 13                     |



## Climatological Data for July, 1925

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direc-<br>tion of wind | Observers |                                                                                                                          |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|-----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                                   |           | Cloudy                                                                                                                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                                   |           |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 34                      | 72.1                         | -1.1                      | 98      | 7     | 48     | 1     | 35                       | 6.61  | +1.63                     | 2.02                 | 0                         | 12                           | 18    | 8          | 5                                 | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 33                      | 67.2                         | -2.8                      | 92      | 7     | 41     | 30    | 39                       | 8.07  | +3.24                     | 2.10                 | 0                         | 11                           | 17    | 1          | 13                                | w.        |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848             | 24                      | .....                        | .....                     | .....   | ..... | 47     | 18    | .....                    | 8.72  | +4.15                     | 1.35                 | 0                         | 16                           | 16    | 8          | 7                                 | e.        |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 41                      | 69.6 <sup>†</sup>            | -1.8                      | 93      | 7     | 49     | 30    | 32                       | 9.20  | +3.93                     | 2.72                 | 0                         | 14                           | 2     | 20         | 9                                 | .....     |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 24                      | 69.0                         | -1.9                      | 94      | 7     | 46     | 1†    | 35                       | 7.75  | +3.49                     | 2.96                 | 0                         | 16                           | 15    | 6          | 10                                | sw.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 42                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 42                      | 72.0                         | -2.1                      | 96      | 7     | 50     | 1     | 35                       | 9.41  | +4.56                     | 2.51                 | 0                         | 13                           | 10    | 12         | 9                                 | .....     |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 69.0 <sup>†</sup>            | -3.1                      | 94      | 7     | .....  | ..... | .....                    | §     | .....                     | §                    | 0                         | 14                           | ..... | .....      | .....                             | w.        |                                                                                                                          |
| Means and extremes.....                     | .....           | .....           | .....                   | 69.8                         | -2.1                      | 98      | 7     | 41     | 30    | 39                       | 8.29  | +3.50                     | 2.96                 | 0                         | 14                           | 13    | 9          | 9                                 | w.        | .....                                                                                                                    |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                                   |           |                                                                                                                          |
| Bergen Point†.....                          | Hudson.....     | 37              | 28                      | 73.4 <sup>*</sup>            | -0.6                      | 93      | 7†    | 55     | 1     | .....                    | 6.14  | +1.53                     | 2.16                 | 0                         | 11                           | 5     | 19         | 7                                 | sw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                                | Morris.....     | 400             | 35                      | 69.4                         | -3.1                      | 91      | 7†    | 48     | 30    | 35                       | 8.09  | +3.19                     | 2.70                 | 0                         | 16                           | 23    | 0          | 8                                 | sw.       |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 21                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 8.45  | +4.01                     | 4.33                 | 0                         | 14                           | 20    | 9          | 2                                 | .....     |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 46                      | 73.2 <sup>†</sup>            | -2.1                      | 96      | 7     | .....  | ..... | .....                    | 6.56  | +1.40                     | 1.97                 | 0                         | 12                           | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 39                      | 73.6                         | -1.0                      | 97      | 7     | 52     | 1     | 33                       | 6.10  | +0.88                     | 1.90                 | 0                         | 14                           | 18    | 7          | 6                                 | w.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood†.....                              | Bergen.....     | 90              | 37                      | 70.0                         | -2.3                      | 93      | 7     | 50     | 1     | 29                       | 8.21  | +3.26                     | 2.97                 | 0                         | 13                           | 6     | 11         | 14                                | nw.       |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 27                      | 73.8                         | -2.3                      | 94      | 7†    | 56     | 1     | 25                       | 6.25  | +1.81                     | 2.00                 | 0                         | 11                           | 9     | 16         | 6                                 | s.        |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 38                      | 72.0                         | -2.3                      | 95      | 7     | 51     | 1     | 29                       | 8.60  | +3.78                     | 1.94                 | 0                         | 13                           | 12    | 9          | 10                                | sw.       |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 22                      | 71.3                         | -2.5                      | 94      | 6     | 50     | 1†    | 36                       | 7.05  | +2.66                     | 2.75                 | 0                         | 14                           | 16    | 5          | 10                                | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                       |
| New Brunswick.....                          | Middlesex.....  | 110             | 72                      | 72.6                         | -1.4                      | 93      | 12    | 51     | 1     | 31                       | 4.36  | -0.68                     | 1.58                 | 0                         | 15                           | 18    | 6          | 7                                 | sw.       |                                                                                                                          |
| New Milford†.....                           | Bergen.....     | 9               | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 8.02  | .....                     | 2.71                 | 0                         | 12                           | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 54                      | 73.4                         | -1.0                      | 98      | 7     | 54     | 1     | 30                       | 6.71  | +1.69                     | 2.56                 | 0                         | 13                           | 13    | 2          | 16                                | se.       |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120             | 37                      | 71.0                         | -3.0                      | 94      | 12    | 49     | 30    | 34                       | 6.34  | +0.51                     | 1.98                 | 0                         | 14                           | 13    | 13         | 5                                 | nw.       | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                     |
| Ridgefield†.....                            | Bergen.....     | 80              | 7                       | 71.2                         | -1.1                      | 93      | 7     | 52     | 1     | 29                       | 6.36  | .....                     | 2.45                 | 0                         | 13                           | 16    | 8          | 7                                 | nw.       |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70              | 42                      | 73.0                         | -1.1                      | 97      | 7     | 45     | 18    | 38                       | 6.93  | +1.82                     | 2.36                 | 0                         | 14                           | 22    | 4          | 5                                 | w.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 55                      | 71.2                         | -2.0                      | 92      | 7     | 54     | 30    | 27                       | 8.34  | +3.33                     | 3.08                 | 0                         | 13                           | 16    | 4          | 11                                | sw.       |                                                                                                                          |
| Woodcliff Lake†.....                        | Bergen.....     | 100             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 7.54  | .....                     | 2.00                 | 0                         | 13                           | ..... | .....      | .....                             | .....     | .....                                                                                                                    |
| New York, N. Y.....                         | .....           | 365             | 55                      | 72.5                         | -1.3                      | 91      | 12    | 56     | 1     | 22                       | 6.05  | +1.51                     | 2.39                 | 0                         | 13                           | 5     | 13         | 13                                | s.        | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....                     | .....           | .....           | .....                   | 72.1                         | -1.9                      | 98      | 7     | 45     | 18    | 38                       | 7.06  | +2.08                     | 4.33                 | 0                         | 13                           | 15    | 8          | 8                                 | sw.       | .....                                                                                                                    |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                                   |           |                                                                                                                          |
| Belleplain.....                             | Cape May.....   | 30              | 31                      | 72.2 <sup>*</sup>            | -1.6                      | 96      | 7     | 39     | 1     | 40                       | 10.09 | +5.98                     | 3.69                 | 0                         | 12                           | 14    | 10         | 7                                 | w.        | Thomas J. Durell.<br>Harold K. Tryon.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                              | Cumberland..... | 90              | 44                      | 75.3                         | -1.4                      | 98      | 7     | 49     | 1     | 31                       | 7.14  | +2.65                     | 3.55                 | 0                         | 10                           | 12    | 10         | 9                                 | sw.       |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 39                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 7.37  | +2.63                     | 2.15                 | 0                         | 14                           | 20    | 8          | 3                                 | nw.       |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 29                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Freehold.....                               | Monmouth.....   | 180             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 8.79  | +3.67                     | 3.11                 | 0                         | 13                           | ..... | .....      | .....                             | .....     | County Agr'l Agent.<br>Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.                               |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 72.8                         | -1.9                      | 96      | 7     | 48     | 1     | 33                       | 6.12  | +1.36                     | 1.11                 | 0                         | 14                           | 22    | 6          | 3                                 | s.        |                                                                                                                          |
| Indian Mills†.....                          | Burlington..... | 76              | 36                      | 73.2                         | -1.5                      | 99      | 7     | 45     | 1     | 38                       | 9.62  | +4.96                     | 3.98                 | 0                         | 9                            | 12    | 10         | 9                                 | s.        | James M. Armstrong.<br>R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.               |
| Lakewood.....                               | Ocean.....      | 54              | 21                      | 72.6                         | -0.2                      | 98      | 7     | 48     | 1     | 34                       | 8.32  | +3.47                     | 2.40                 | 0                         | 10                           | 19    | 4          | 8                                 | nw.       |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75              | 62                      | 73.6                         | -1.1                      | 97      | 7     | 51     | 1     | 33                       | 9.08  | +4.40                     | 2.18                 | 0                         | 13                           | 16    | 9          | 6                                 | sw.       |                                                                                                                          |
| Northfield†.....                            | Atlantic.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 7.58  | +3.98                     | 2.42                 | 0                         | 9                            | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Pleasantville†.....                         | Atlantic.....   | 26              | 27                      | 71.8                         | .....                     | 95      | 12    | 45     | 1     | 33                       | 8.09  | +4.11                     | 2.94                 | 0                         | 9                            | 16    | 12         | 3                                 | s.        | .....                                                                                                                    |
| Runyon†.....                                | Middlesex.....  | 18              | .....                   | 71.4                         | .....                     | 94      | 7†    | 44     | 24    | 41                       | 4.03  | .....                     | 1.06                 | 0                         | 13                           | 16    | 14         | 1                                 | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                                | Mercer.....     | 190             | 53                      | 73.3                         | -1.2                      | 92      | 6     | 55     | 1     | 25                       | 5.15  | +0.38                     | 1.39                 | 0                         | 15                           | 9     | 10         | 12                                | nw.       |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 32                      | 72.8                         | -1.3                      | 95      | 7†    | 49     | 1     | 32                       | 9.60  | +5.72                     | 3.70                 | 0                         | 10                           | 16    | 10         | 5                                 | w.        |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 56                      | 74.2 <sup>†</sup>            | -2.2                      | .....   | ..... | .....  | ..... | .....                    | 7.75  | +3.18                     | 3.99                 | 0                         | .....                        | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Philadelphia, Pa.....                       | .....           | 117             | 55                      | 76.2                         | 0.0                       | 96      | 12    | 60     | 1     | 24                       | 4.99  | +0.66                     | 1.75                 | 0                         | 13                           | 8     | 15         | 8                                 | nw.       | .....                                                                                                                    |
| Means and extremes.....                     | .....           | .....           | .....                   | 73.0                         | -1.4                      | 99      | 7     | 39     | 1     | 41                       | 7.77  | +3.58                     | 3.99                 | 0                         | 12                           | 16    | 9          | 6                                 | s.        | .....                                                                                                                    |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                                   |           |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 36                      | 70.8 <sup>†</sup>            | -1.6                      | 94      | 12    | 50     | 4     | 24                       | 7.21  | +2.67                     | 2.28                 | 0                         | 12                           | 19    | 10         | 2                                 | s.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 51                      | 72.5                         | +0.4                      | 92      | 12    | 56     | 1     | 19                       | 7.06  | +3.28                     | 2.33                 | 0                         | 12                           | 15    | 8          | 8                                 | s.        |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 41                      | 74.4                         | +1.0                      | 91      | 10    | 56     | 1     | 22                       | 4.30  | +0.52                     | 1.32                 | 0                         | 13                           | 12    | 9          | 10                                | s.        |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 18                      | 71.0                         | -1.1                      | 93      | 12    | 54     | 18    | 23                       | 7.56  | +2.64                     | 3.30                 | 0                         | 14                           | 14    | 10         | 7                                 | s.        |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 27                      | 73.0                         | +0.7                      | 90      | 12    | 60     | 1     | 20                       | 4.78  | -0.01                     | 1.85                 | 0                         | 15                           | 10    | 12         | 9                                 | s.        | .....                                                                                                                    |
| Means and extremes.....                     | .....           | .....           | .....                   | 72.3                         | -0.1                      | 94      | 12    | 50     | 4     | 24                       | 6.18  | +1.82                     | 3.30                 | 0                         | 13                           | 14    | 10         | 7                                 | s.        | .....                                                                                                                    |
| For the State.....                          | .....           | .....           | .....                   | 72.0                         | -1.5                      | 99      | 7     | 39     | 1     | 41                       | 7.37  | +2.78                     | 4.33                 | 0                         | 13                           | 15    | 9          | 7                                 | s.        | .....                                                                                                                    |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere.



## Daily Precipitation for July, 1925

| Stations                                   | Drainage Basin  | Day of month |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      | Total |      |
|--------------------------------------------|-----------------|--------------|-----|-----|------|-----|-----|------|------|------|------|-----|----|------|-----|------|--------|------|-----|----|----|-------|------|------|-----|-------|------|-----|------|------|----|------|-------|------|
|                                            |                 | 1            | 2   | 3   | 4    | 5   | 6   | 7    | 8    | 9    | 10   | 11  | 12 | 13   | 14  | 15   | 16     | 17   | 18  | 19 | 20 | 21    | 22   | 23   | 24  | 25    | 26   | 27  | 28   | 29   | 30 | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Belvidere.....                             | Delaware.....   | .10          |     |     | T.   | .50 |     |      | T.   | .20  |      | .17 |    |      |     | .05  | .88    |      |     |    |    | .84   | .40  |      |     | .09   | .54  |     | .82  |      |    | 2.02 | 6.61  |      |
| Charlotteburg.....                         | Passaic.....    | .14          |     | .34 |      |     |     |      |      | 1.40 |      | .12 |    |      |     |      | 1.97   |      |     |    |    | 1.20  |      |      |     | * .55 | .25  |     |      |      |    | 2.10 | 8.07  |      |
| Culvers Lake.....                          | Delaware.....   | .12          |     | .05 | .88  |     |     | 1.31 | .96  |      | .06  |     |    |      |     | .25  | 1.02   | .47  |     |    |    | .50   | 1.07 |      |     | .32   | .33  | .02 | .01  | T.   |    | 1.35 | 8.72  |      |
| Dover.....                                 | Passaic.....    | .14          |     | .06 | .40  |     |     | .07  | .23  |      | .17  |     |    |      |     | .52  | 2.20   |      |     |    |    | .49   | .72  |      |     | .40   | .60  |     | .65  |      |    | 2.55 | 9.20  |      |
| Layton.....                                | Delaware.....   | .23          |     | .03 | 1.02 |     |     | .48  |      | .03  | .02  |     |    |      |     | .11  | .17    | .46  |     |    |    | .46   | 2.96 |      |     | .04   | .47  | .03 | .18  |      |    | 1.06 | 7.75  |      |
| Newton.....                                | Delaware.....   |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Phillipsburg.....                          | do.....         | .02          |     | .88 |      |     |     | .02  | .17  |      | 1.31 |     |    |      |     | .05  | .62    |      |     |    | T. | .44   | .48  |      |     | 1.04  | .58  |     | 1.29 |      |    | 2.51 | 9.41  |      |
| Sussex.....                                | Hudson.....     | .25          |     | .04 | .79  |     |     |      | 1.31 |      | .05  | .12 |    |      |     |      | * 1.91 |      |     |    |    | .68   | .53  |      |     | .14   | .33  |     | \$   |      | \$ | \$   | \$    |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Bergen Point**.....                        | Coast.....      | .05          |     | T.  | .33  |     |     | T.   | .04  |      | 2.16 |     |    |      |     | T.   | .67    |      |     |    |    | .11   | .09  |      |     | .40   | .32  |     | .14  |      |    | 1.83 | 6.14  |      |
| Boonton   .....                            | Passaic.....    | .02          | .08 |     | .45  |     |     | .03  | .14  |      | .19  |     |    |      |     | .29  | 1.93   | .02  |     |    |    | * .23 | .19  |      |     | .71   | .03  | .62 |      | .56  |    | 4.33 | 8.09  |      |
| Chatham   .....                            | do.....         |              |     |     | .20  |     |     |      | *    |      | .89  |     |    |      |     | .21  | 1.04   |      |     |    |    |       |      |      |     |       |      |     |      |      |    | 4.33 | 8.45  |      |
| Elizabeth.....                             | Coast.....      | .05          |     |     | .31  |     |     | .02  | .02  | 1.57 |      |     |    |      |     | .02  | T.     | .88  |     |    |    | .10   | .12  |      |     | .64   | .59  | .01 | .27  |      |    | 1.97 | 6.56  |      |
| Flemington.....                            | Raritan.....    | .03          |     | T.  | .51  |     |     | .39  | .03  | .44  |      |     |    |      |     | T.   | .08    | .71  |     |    |    | .21   | .22  |      |     | .06   | .28  | .31 |      | .60  |    |      | 2.97  | 8.21 |
| Highwood.....                              | Hackensack..... | .12          |     | T.  | .44  |     |     | T.   | .32  |      | .33  |     |    |      |     | T.   | .64    | 1.28 |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Jersey City.....                           | Coast.....      | .05          |     | T.  | .32  |     |     | .04  |      | 1.94 |      |     |    |      |     | T.   | .68    |      |     |    |    | .10   | .24  |      |     | .22   | .22  | .04 | .40  |      |    | 2.00 | 6.25  |      |
| Lambertville.....                          | Delaware.....   | T.           | .09 |     | .82  |     | .10 | .51  |      | .67  |      |     |    |      |     | 1.94 |        | .37  |     |    |    | .67   | .15  |      |     | .97   | .81  |     | .04  |      |    | 1.46 | 8.60  |      |
| Little Falls   .....                       | Passaic.....    | .05          | .04 |     | .40  |     |     | .01  | .31  |      | .16  |     |    |      |     | .42  | .84    |      |     |    |    | .15   | .08  | .19  |     | .41   | .49  | .06 |      | .17  |    | 1.58 | 4.36  |      |
| New Brunswick.....                         | Raritan.....    | .01          |     | T.  | .44  |     |     | .10  | .03  | .45  |      |     |    |      |     | T.   | .08    | .40  |     |    |    | .08   | .03  | .02  |     | .03   | .42  |     | .85  |      |    | 2.38 | 8.02  |      |
| New Milford**.....                         | Hackensack..... | .12          |     |     | .33  |     |     | .52  |      | .14  |      |     |    |      |     | 2.69 | .02    |      |     |    |    | .20   | .32  |      |     | .03   | .42  |     |      |      |    | 2.56 | 6.71  |      |
| Paterson.....                              | Passaic.....    | .10          |     |     | .35  |     | .04 | .29  |      | .19  |      |     |    |      |     | T.   | .48    | .80  |     |    |    | .20   | .16  | T.   |     | .09   | .40  |     |      | 1.05 |    |      |       |      |
| Plainfield.....                            | Raritan.....    | .04          |     | T.  | .28  |     |     | .05  |      | .67  |      |     |    |      |     | .05  | .69    | .14  |     |    |    | .15   | .34  |      |     | .65   | .41  | .10 | .81  |      |    | 1.98 | 6.34  |      |
| Ridgefield.....                            | Hackensack..... | .05          |     | T.  | .44  |     |     | .06  |      | .63  |      |     |    |      |     | T.   | .21    | .70  |     |    |    | .03   | .77  |      |     | .11   | .44  | .04 | .43  |      |    | 2.45 | 6.36  |      |
| Somerville.....                            | Raritan.....    | .02          |     | T.  | .44  |     |     | .08  | .05  | .60  |      | T.  |    |      |     | .31  | .67    |      |     |    |    | .18   | .18  | T.   |     | .55   | .56  | .59 |      | .34  |    | 2.36 | 6.93  |      |
| South Orange.....                          | Rahway.....     | .07          |     | .03 | .36  |     |     | .02  |      | 1.18 |      |     |    |      |     | 1.33 | .13    |      |     |    |    | .21   | .36  |      |     | .47   | .51  |     |      |      |    | 3.08 | 8.34  |      |
| Woodcliff Lake**.....                      | Hackensack..... | .10          |     |     | .36  |     |     | 1.45 |      | .05  |      |     |    |      |     | .10  | 1.90   | .10  |     |    |    | .16   | .62  |      |     | .05   | .31  |     | .39  |      |    | 1.95 | 7.54  |      |
| New York, N. Y***.....                     | Coast.....      | .05          |     | .01 | .24  |     |     | T.   | .03  |      | 2.39 |     |    |      |     | T.   | .51    | .01  |     |    |    | .06   | .07  |      |     | .23   | .42  | T.  | .30  |      |    | 1.73 | 6.05  |      |
| <i>The Southern Interior.</i>              |                 |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |     |     | .57  |     |     | .45  |      | .57  |      | .74 |    | 1.15 | .03 |      | 1.10   |      |     |    |    | .26   | .03  |      |     | .10   | 1.40 |     |      |      |    | 3.69 | 10.09 |      |
| Bridgeton.....                             | Coast.....      |              |     |     | .11  |     |     | T.   |      | 2.15 |      | .15 |    |      |     | .38  | .23    | .51  |     |    |    | T.    | .12  | *    | .10 |       | .30  | .30 |      |      |    |      | 3.55  | 7.14 |
| Burlington.....                            | Delaware.....   | .24          |     |     | .44  |     |     | .27  | 2.15 |      |      |     |    |      |     | .70  | *      | .98  |     |    |    |       |      |      |     |       |      |     |      |      |    |      | 1.62  | 7.37 |
| Clayton.....                               | Delaware.....   |              |     |     | *    |     |     | .32  | .31  |      | 1.01 |     |    |      |     |      | .27    | .49  |     |    |    | *     | *    | 2.05 |     | 1.00  | .15  |     | .08  |      |    |      |       |      |
| Freehold   .....                           | Coast.....      |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Hammonton.....                             | Mullica.....    |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Hightstown.....                            | Raritan.....    |              |     |     |      |     |     | .96  | .26  | .41  | .02  |     |    |      |     | .23  | .02    | .52  |     |    |    | .02   | .78  |      |     | .82   | .49  |     |      |      |    | 1.11 | 6.12  |      |
| Inlaytown.....                             | Delaware.....   | .06          |     |     | .41  |     |     | .10  | T.   | 2.09 |      | .04 |    |      |     | .30  |        | .86  |     |    |    | T.    | .60  |      |     | .08   | 1.66 |     |      |      |    | 3.98 | 9.62  |      |
| Indian Mills.....                          | Mullica.....    | T.           |     |     | .10  |     |     | .30  |      | .22  | 1.60 |     |    |      |     |      | 1.20   |      |     |    |    | T.    | 1.70 | .15  |     | .10   | .60  |     |      |      |    | 2.40 | 8.32  |      |
| Lakewood.....                              | Metedeconk..... | .05          |     |     | .30  |     |     | .37  |      | .13  | 1.47 | .82 |    |      |     | .08  |        | 1.25 |     |    |    | .04   | .04  |      |     | 1.77  | .33  |     |      |      |    | 2.18 | 9.08  |      |
| Moorestown.....                            | Delaware.....   | .57          |     |     | .37  |     |     | .78  |      | .34  |      |     |    |      |     | T.   | .28    |      | .53 |    |    |       | .07  | .23  |     |       | 1.97 |     |      |      |    | 2.42 | 7.58  |      |
| Northfield.....                            | Coast.....      |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Pleasantville   .....                      | Coast.....      |              |     |     | .35  |     |     |      |      | .70  |      | .28 |    |      |     | .16  | .60    |      |     |    |    |       |      | .33  |     |       | 2.94 | .04 |      |      |    | 2.69 | 8.09  |      |
| Runyon.....                                | Coast.....      | .02          |     |     | .59  |     |     | .10  | .13  | .36  |      |     |    |      |     | .08  | .50    |      |     |    |    | .07   |      | .03  |     | .55   | .49  |     |      | .05  |    | 1.06 | 4.03  |      |
| Trenton***.....                            | Delaware.....   | .08          |     | .04 | .38  |     |     | .11  | .59  | .02  | .01  |     |    |      |     | .31  | .64    | .01  |     |    |    | .13   | .17  |      |     | .83   | .56  |     |      |      |    | 1.27 | 5.15  |      |
| Tuckerton.....                             | Coast.....      |              |     |     | .27  |     |     | 2.01 | .40  |      |      |     |    |      |     | .26  | .20    | .95  |     |    |    |       |      | .62  |     |       | 1.50 |     |      |      |    | 3.70 | 9.60  |      |
| Vineland.....                              | Maurice.....    |              |     |     |      |     |     |      |      |      |      | .13 |    |      |     | .26  | .20    | .95  |     |    |    | .03   | .03  |      | .25 | .24   |      | .07 | 1.66 |      |    | 3.99 | 7.75  |      |
| Phila., Pa***.....                         | Delaware.....   | T.           |     | .31 | .11  |     |     | .10  | .67  |      | .48  | T.  |    |      |     | .29  | .48    | T.   |     |    |    | .03   | .03  | .06  |     | .49   | .19  |     |      |      |    | 1.75 | 4.99  |      |
| <i>The Sea Coast.</i>                      |                 |              |     |     |      |     |     |      |      |      |      |     |    |      |     |      |        |      |     |    |    |       |      |      |     |       |      |     |      |      |    |      |       |      |
| Asbury Park.....                           | Coast.....      | T.           |     |     | .29  |     | .07 | .44  |      | *    |      | *   |    |      |     | *    |        | .53  |     |    |    | .01   | 1.76 | .06  |     | 1.13  | .41  | .03 |      | .20  |    | 2.28 | 7.21  |      |
| Atlantic City***.....                      | do.....         | T.           |     |     | .67  |     |     | .67  | T.   |      | .20  |     |    |      |     | .06  | .63    | .01  |     |    |    |       | .11  |      |     | .02   | 2.28 | .02 |      |      |    | 2.33 | 7.06  |      |
| Cape May City.....                         | do.....         |              |     |     | .49  |     |     | .18  |      | .41  |      | .20 |    |      |     | .06  |        | .81  |     |    |    |       | .63  | .01  |     | .01   | .04  |     | .06  |      |    | 1.32 | 4.30  |      |
| Long Branch**.....                         | do.....         |              |     |     | .12  |     | .27 | .16  |      | .50  | .07  | .01 |    |      |     | .04  | .24    | .09  |     |    |    | T.    | 3.30 |      |     | .25   | .24  |     | .03  |      | T. | 2.24 | 7.56  |      |
| Sandy Hook***.....                         | do.....         | .04          |     | T.  | .50  |     | .04 | .07  |      | .35  |      | T.  |    |      |     | .01  | .73    | .05  |     |    |    |       | .05  | .45  |     |       | .29  | .28 | .02  | .05  |    | 1.85 | 4.78  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. ‡ Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture                                |                                        | Sun-<br>shine |       |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|-----------------------------------------|----------------------------------------|---------------|-------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity,<br>per cent at 8 a m | Relative humidity<br>per cent at 8 p m |               |       |
|                       |              |         |      |        |      |                 | Miles per hour | Direction |                                         |                                        | Date          |       |
| Atlantic City.....    | 29.94        | 30.22   | 1    | 29.65  | 16   | 14.2            | 55             | se.       | 31                                      | 76                                     | 82            | 65    |
| Cape May City.....    | 29.99        | 30.28   | 1    | 29.68  | 16   | 6.0             | 15             | s.        | 22                                      | 78                                     | 82            | ..... |
| Long Branch.....      | 29.94        | 30.19   | 1    | 29.64  | 16   | 13.8            | 60             | nw.       | 28                                      | 75                                     | 70            | 67    |
| New York, N. Y.....   | 29.94        | 30.24   | 1    | 29.63  | 16   | 7.6             | 41             | ne.       | 12                                      | 76                                     | 70            | 65    |
| Philadelphia, Pa..... | 29.94        | 30.20   | 1    | 29.63  | 16   | .....           | 44             | se.       | 31                                      | 76                                     | 77            | 72    |
| Ridgefield.....       | 29.93        | 30.22   | 1    | 29.61  | 16   | 11.7            | 31             | ne.       | 8                                       | 76                                     | 69            | 64    |
| Sandy Hook.....       | 29.93        | 30.22   | 1    | 29.61  | 16   | 7.9             | 31             | ne.       | 8                                       | 76                                     | 69            | 64    |
| Trenton.....          | 29.93        | 30.22   | 1    | 29.61  | 16   | 7.9             | 31             | ne.       | 8                                       | 76                                     | 69            | 64    |



## Daily Temperatures for July, 1925

| Stations                             |         | 1  | 2   | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30   | 31   | Mean |      |      |
|--------------------------------------|---------|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|------|------|
| The Highlands and Kittatinny Valley. |         |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |      |
| Belvidere.....                       | Maximum | 82 | 83  | 83 | 85 | 91 | 94 | 98 | 80 | 86 | 84 | 93 | 94 | 84 | 84 | 83 | 91 | 86 | 76 | 85 | 89 | 82 | 80 | 82 | 86 | 78 | 83 | 82 | 88 | 78 | 83   | 78   | 84.9 |      |      |
|                                      | Minimum | 48 | 58  | 54 | 56 | 66 | 60 | 73 | 68 | 65 | 68 | 64 | 65 | 59 | 55 | 59 | 67 | 64 | 49 | 50 | 54 | 64 | 66 | 55 | 51 | 55 | 63 | 62 | 56 | 54 | 61   | 60   | 59.3 |      |      |
| Charlotteburg.....                   | Maximum | 76 | 76  | 78 | 76 | 86 | 89 | 92 | 88 | 81 | 78 | 80 | 89 | 80 | 82 | 80 | 83 | 81 | 75 | 82 | 83 | 70 | 79 | 78 | 82 | 79 | 78 | 76 | 83 | 79 | 78   | 75   | 80.4 |      |      |
|                                      | Minimum | 48 | 53  | 49 | 51 | 59 | 53 | 63 | 70 | 60 | 55 | 57 | 58 | 54 | 49 | 47 | 59 | 50 | 50 | 48 | 45 | 60 | 63 | 49 | 43 | 47 | 62 | 64 | 55 | 60 | 41   | 52   | 54.0 |      |      |
| Dover.....                           | Maximum | 79 | 79  | 79 | 80 | 90 | 91 | 93 | 81 | 80 | 81 | 92 | 91 | 81 | 80 | 86 | 82 | 72 | 84 | 85 | 76 | 80 | 80 | 80 | 74 | 78 | 79 | 84 | 77 | 79 | 73   | 81.5 |      |      |      |
|                                      | Minimum | 50 | 58  | 52 | 53 | 64 | 64 | 71 | 68 | 62 | 61 | 63 | 63 | 58 | 55 | 54 | 63 | 59 | 50 | 52 | 53 | 64 | 68 | 54 | 50 | 53 | 62 | 66 | 55 | 49 | 57   | 67.6 |      |      |      |
| Layton.....                          | Maximum | 78 | 80  | 80 | 78 | 87 | 89 | 94 | 79 | 82 | 81 | 89 | 90 | 79 | 83 | 79 | 85 | 81 | 70 | 83 | 84 | 73 | 81 | 78 | 84 | 75 | 78 | 80 | 82 | 75 | 77   | 66   | 80.6 |      |      |
|                                      | Minimum | 46 | 56  | 49 | 54 | 66 | 57 | 72 | 68 | 61 | 66 | 59 | 68 | 53 | 52 | 53 | 66 | 60 | 46 | 49 | 50 | 64 | 66 | 54 | 49 | 54 | 64 | 58 | 54 | 60 | 48   | 58   | 57.4 |      |      |
| Newton.....                          | Maximum | 78 | 82  | 82 | 83 | 89 | 91 | 96 | 81 | 85 | 81 | 91 | 94 | 83 | 84 | 82 | 84 | 83 | 73 | 87 | 85 | 76 | 80 | 80 | 84 | 79 | 83 | 83 | 85 | 77 | 80   | 66   | 82.8 |      |      |
|                                      | Minimum | 50 | 59  | 57 | 57 | 66 | 60 | 73 | 71 | 67 | 69 | 68 | 66 | 60 | 57 | 61 | 69 | 65 | 52 | 52 | 53 | 67 | 68 | 57 | 53 | 57 | 65 | 65 | 60 | 56 | 53   | 61   | 61.1 |      |      |
| Sussex.....                          | Maximum | 77 | 77  | 77 | 83 | 86 | 89 | 94 | 77 | 83 | 81 | 87 | 89 | 81 | 82 | 85 | 85 | 73 | 80 | 83 | 74 | 79 | 77 | 81 | 75 | 77 | 63 | 63 | 60 | 56 | 53   | 61   | 81.1 |      |      |
|                                      | Minimum | 50 | 58  | 50 | 54 | 64 | 57 | 71 | 64 | 60 | 63 | 60 | 63 | 54 | 54 | 54 | 54 | 48 | 49 | 51 | 51 | 66 | 53 | 49 | 53 | 53 | 53 | 53 | 53 | 53 | 53   | 53   | 56.9 |      |      |
| The Red Sandstone Plain.             |         |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |      |
| Bergen Point.....                    | Maximum | 77 | 77  | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77   | 77   | 77   |      |      |
|                                      | Minimum | 55 | 63  | 61 | 61 | 65 | 66 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65   | 65   | 65   |      |      |
| Boonton§§.....                       | Maximum | 77 | 80  | 80 | 82 | 88 | 90 | 91 | 77 | 82 | 81 | 91 | 91 | 81 | 84 | 80 | 87 | 83 | 74 | 83 | 84 | 71 | 81 | 79 | 84 | 75 | 80 | 80 | 83 | 76 | 78   | 69   | 81.3 |      |      |
|                                      | Minimum | 54 | 58  | 51 | 52 | 62 | 67 | 66 | 70 | 59 | 59 | 64 | 62 | 60 | 53 | 53 | 64 | 63 | 51 | 52 | 51 | 62 | 64 | 55 | 49 | 52 | 60 | 64 | 55 | 58 | 48   | 58   | 57.6 |      |      |
| Elizabeth.....                       | Maximum | 80 | 83  | 81 | 81 | 92 | 94 | 96 | 90 | 83 | 83 | 83 | 95 | 85 | 82 | 89 | 88 | 86 | 88 | 83 | 85 | 82 | 87 | 85 | 88 | 85 | 88 | 85 | 82 | 81 | 85   | 82   | 81   | 85.9 |      |
|                                      | Minimum | 52 | 61  | 55 | 55 | 65 | 61 | 71 | 72 | 61 | 63 | 63 | 62 | 59 | 58 | 66 | 65 | 52 | 53 | 53 | 66 | 70 | 59 | 53 | 57 | 57 | 65 | 59 | 57 | 52 | 62   | 60.4 |      |      |      |
| Flemington.....                      | Maximum | 80 | 87  | 83 | 85 | 90 | 93 | 97 | 86 | 85 | 88 | 95 | 91 | 85 | 85 | 83 | 90 | 86 | 79 | 86 | 87 | 83 | 84 | 84 | 86 | 79 | 84 | 82 | 85 | 79 | 82   | 77   | 85.4 |      |      |
|                                      | Minimum | 52 | 60  | 58 | 55 | 66 | 61 | 74 | 72 | 67 | 68 | 70 | 66 | 62 | 60 | 58 | 69 | 67 | 53 | 55 | 57 | 67 | 69 | 57 | 53 | 56 | 65 | 64 | 60 | 59 | 54   | 62   | 61.8 |      |      |
| Highwood.....                        | Maximum | 78 | 79  | 77 | 78 | 88 | 86 | 93 | 81 | 80 | 78 | 89 | 89 | 81 | 81 | 79 | 81 | 82 | 73 | 82 | 81 | 72 | 79 | 80 | 82 | 74 | 79 | 79 | 82 | 76 | 79   | 70   | 80.3 |      |      |
|                                      | Minimum | 50 | 61  | 63 | 55 | 65 | 60 | 70 | 68 | 62 | 61 | 65 | 66 | 58 | 58 | 58 | 72 | 64 | 52 | 53 | 56 | 54 | 69 | 53 | 52 | 57 | 56 | 68 | 57 | 58 | 51   | 65   | 59.7 |      |      |
| Jersey City.....                     | Maximum | 76 | 80  | 77 | 78 | 90 | 90 | 94 | 87 | 80 | 82 | 90 | 94 | 85 | 85 | 82 | 85 | 85 | 75 | 80 | 85 | 76 | 82 | 81 | 84 | 75 | 82 | 82 | 84 | 76 | 79   | 70   | 82.3 |      |      |
|                                      | Minimum | 56 | 62  | 63 | 61 | 65 | 70 | 70 | 70 | 65 | 67 | 71 | 72 | 67 | 67 | 66 | 65 | 62 | 59 | 59 | 67 | 68 | 68 | 66 | 64 | 67 | 66 | 68 | 64 | 62 | 60   | 63   | 65.2 |      |      |
| Lambertville.....                    | Maximum | 77 | 81  | 82 | 83 | 87 | 92 | 95 | 85 | 83 | 85 | 89 | 90 | 82 | 85 | 82 | 86 | 82 | 72 | 82 | 84 | 73 | 83 | 78 | 83 | 73 | 80 | 79 | 85 | 74 | 78   | 68   | 81.9 |      |      |
|                                      | Minimum | 51 | 60  | 58 | 55 | 63 | 72 | 70 | 64 | 66 | 66 | 69 | 64 | 64 | 66 | 69 | 64 | 62 | 60 | 69 | 65 | 55 | 57 | 59 | 66 | 69 | 59 | 57 | 60 | 65 | 68   | 60   | 63   | 65.2 |      |
| Little Falls§§.....                  | Maximum | 79 | 82  | 82 | 80 | 91 | 94 | 91 | 78 | 82 | 83 | 92 | 93 | 84 | 86 | 81 | 83 | 85 | 82 | 85 | 85 | 73 | 85 | 81 | 85 | 78 | 82 | 81 | 86 | 77 | 82   | 75   | 83.0 |      |      |
|                                      | Minimum | 50 | 59  | 54 | 54 | 63 | 58 | 69 | 71 | 63 | 61 | 65 | 63 | 60 | 56 | 55 | 67 | 64 | 52 | 51 | 55 | 62 | 68 | 55 | 51 | 61 | 66 | 56 | 58 | 50 | 58   | 59.3 |      |      |      |
| New Brunswick.....                   | Maximum | 78 | 82  | 81 | 84 | 89 | 92 | 92 | 89 | 80 | 83 | 90 | 93 | 88 | 81 | 80 | 87 | 84 | 77 | 82 | 85 | 80 | 83 | 82 | 84 | 82 | 81 | 81 | 83 | 80 | 80   | 78   | 83.6 |      |      |
|                                      | Minimum | 51 | 61  | 59 | 54 | 65 | 61 | 72 | 70 | 64 | 65 | 69 | 68 | 63 | 60 | 58 | 69 | 66 | 53 | 55 | 56 | 67 | 70 | 58 | 53 | 58 | 55 | 65 | 65 | 59 | 52   | 61   | 61.6 |      |      |
| Paterson.....                        | Maximum | 81 | 80  | 80 | 80 | 91 | 94 | 98 | 83 | 83 | 80 | 92 | 94 | 87 | 84 | 82 | 83 | 86 | 81 | 84 | 84 | 80 | 80 | 83 | 86 | 85 | 80 | 83 | 88 | 80 | 82   | 77   | 84.2 |      |      |
|                                      | Minimum | 54 | 63  | 57 | 58 | 65 | 64 | 72 | 70 | 64 | 64 | 66 | 69 | 64 | 62 | 60 | 69 | 65 | 55 | 57 | 59 | 66 | 69 | 59 | 57 | 60 | 65 | 68 | 60 | 59 | 55   | 62   | 62.5 |      |      |
| Plainfield.....                      | Maximum | 77 | 81  | 80 | 84 | 90 | 91 | 93 | 87 | 80 | 83 | 89 | 94 | 85 | 85 | 82 | 86 | 85 | 75 | 80 | 85 | 76 | 83 | 81 | 84 | 75 | 82 | 82 | 84 | 76 | 79   | 68   | 82.6 |      |      |
|                                      | Minimum | 50 | 60  | 57 | 53 | 64 | 58 | 70 | 71 | 61 | 63 | 65 | 63 | 60 | 57 | 54 | 69 | 65 | 50 | 53 | 53 | 63 | 68 | 59 | 50 | 55 | 65 | 67 | 57 | 57 | 49   | 61   | 59.5 |      |      |
| Ridgefield.....                      | Maximum | 77 | 79  | 78 | 77 | 90 | 89 | 93 | 79 | 82 | 80 | 91 | 92 | 83 | 83 | 80 | 89 | 88 | 85 | 83 | 74 | 83 | 81 | 73 | 81 | 79 | 82 | 75 | 81 | 83 | 83   | 75   | 78   | 66   | 81.1 |
|                                      | Minimum | 52 | 61  | 55 | 56 | 65 | 63 | 71 | 65 | 63 | 64 | 68 | 69 | 62 | 59 | 60 | 65 | 63 | 53 | 54 | 58 | 67 | 67 | 60 | 56 | 60 | 66 | 65 | 60 | 59 | 54   | 60   | 61.3 |      |      |
| Somerville.....                      | Maximum | 80 | 84  | 84 | 86 | 92 | 95 | 97 | 90 | 84 | 85 | 92 | 95 | 88 | 88 | 85 | 90 | 87 | 82 | 85 | 88 | 83 | 86 | 84 | 88 | 84 | 88 | 84 | 88 | 80 | 82   | 79   | 86.4 |      |      |
|                                      | Minimum | 49 | 60  | 53 | 52 | 65 | 57 | 72 | 72 | 64 | 64 | 67 | 63 | 58 | 60 | 54 | 70 | 65 | 45 | 52 | 54 | 67 | 69 | 56 | 52 | 54 | 66 | 63 | 57 | 58 | 51   | 61   | 69.7 |      |      |
| South Orange.....                    | Maximum | 76 | 80  | 77 | 78 | 87 | 89 | 92 | 80 | 79 | 82 | 88 | 90 | 81 | 81 | 80 | 84 | 83 | 74 | 81 | 82 | 74 | 81 | 82 | 74 | 80 | 80 | 80 | 83 | 75 | 77   | 68   | 80.6 |      |      |
|                                      | Minimum | 55 | 61  | 59 | 57 | 65 | 62 | 72 | 66 | 62 | 65 | 69 | 68 | 66 | 62 | 61 | 66 | 61 | 56 | 56 | 59 | 66 | 59 | 59 | 61 | 65 | 62 | 62 | 56 | 54 | 62   | 61.9 |      |      |      |
| New York, N. Y.....                  | Maximum | 75 | 79  | 74 | 73 | 87 | 86 | 90 | 81 | 77 | 79 | 89 | 91 | 81 | 82 | 77 | 80 | 82 | 73 | 80 | 81 | 73 | 79 | 79 | 82 | 75 | 80 | 79 | 82 | 74 | 78   | 70   | 79.6 |      |      |
|                                      | Minimum | 56 | 63  | 63 | 62 | 65 | 71 | 71 | 68 | 65 | 67 | 72 | 72 | 67 | 68 | 66 | 65 | 62 | 59 | 60 | 67 | 69 | 68 | 66 | 64 | 67 | 66 | 68 | 64 | 62 | 62   | 63   | 65.4 |      |      |
| The Southern Interior.               |         |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |      |
| Belleplain.....                      | Maximum | 79 | 88  | 88 | 85 | 88 | 87 | 96 | 95 | 77 | 90 | 91 | 94 | 84 | 82 | 79 | 85 | 87 | 79 | 78 | 85 | 83 | 82 | 85 | 82 | 83 | 86 | 81 | 81 | 79 | 84.9 |      |      |      |      |
|                                      | Minimum | 39 | 58  | 65 | 45 | 66 | 64 | 71 | 69 | 66 | 68 | 67 | 64 | 61 | 61 | 55 | 69 | 59 | 50 | 46 | 51 | 68 | 70 | 61 | 49 | 58 | 63 | 55 | 54 | 47 | 62   | 59.4 |      |      |      |
| Bridgeton.....                       | Maximum | 78 | 888 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |      |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXX.

AUGUST, 1925.

No. 8

### GENERAL SUMMARY.

During the first half of the month several dry days followed the abrupt termination of the frequent rains of July. Showers, which were frequent but not voluminous, occurred during the remainder of the first fortnight. The drought during the latter half of the month was broken only by rains on the 20th and 21st. Moderate crop deterioration resulted. The absence of severely warm days, and the prevalence of cool mornings, made August unusually comfortable in contrast to the humidity and heat usually characteristic of this month. Natural water courses, which had been fully restored in July, again became low toward the close of August, with resulting inconvenience.

No storm warnings were displayed along the shore during the month.

E. M. B.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 33 stations, was 71.0°, which was 0.9° below normal. The highest temperature was 93° at 9 stations on the 20th, 26th, and 31st, and the lowest, 35°, at Charlotteburg and Layton on the 28th. The greatest daily range of temperature was 46° at Belleplain on the 30th. The highest monthly mean temperature was 73.4° at Vineland, and the lowest, 66.6° at Charlotteburg.

The temperature departure from the normal for the year 1925, to date, by sections, is: The Highlands, +1.1°; Red Sandstone Plain, +0.9°; Southern Interior, +1.8°; Sea Coast, +2.3°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 38 stations, was 2.10 inches, which was 2.71 inches below normal. The greatest monthly precipitation was 4.12 inches at Belleplain, and the least, 0.94 inch at Belvidere. The greatest amount of precipitation in any 24 consecutive hours was 3.37 inches at Belleplain on the 5th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 7 or 3 less than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, +0.28 inch; Red Sandstone Plain, -3.39 inches; Southern Interior, -5.43 inches; Sea Coast, -6.56 inches.

### WIND.

The prevailing wind direction was from the west. The wind movement averaged 9 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 40

miles per hour from the northeast at Atlantic City on the 27th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 20, which was 7 more than normal; partly cloudy, 6, or 5 less than normal; cloudy, 5, or 2 less than normal. The per cent of possible sunshine was 77, which was 11 per cent above normal.

### MISCELLANEOUS.

The mean atmospheric pressure reduced to sea level, was 30.08 inches, which was 0.08 inch above normal. The highest reading was 30.49 inches at Cape May City on the 24th, and the lowest 29.70 inches at Sandy Hook on the 1st.

The mean stage of the Delaware River at Phillipsburg was 2.1 feet; and the highest stage 4.1 feet on the 3d. At Trenton the mean daily stage was 1.2 feet, which was 0.1 foot above normal. The highest stage was 2.3 feet on the 2d.

Thunderstorms occurred in some portions of the State on the 4th, 5th, 6th, 8th, 9th, 10th, 11th, 14th, 20th, and 31st. Dense fog was noted on the 7th, 14th, and 19th. Solar halos were observed on the 3d, 8th, 12th, and 28th, and lunar halos on the 31st.

Hail fell, with no damage at Ridgefield on the 11th, and with appreciable damage at Franklin Park on the 31st.

### COMPARATIVE DATA FOR AUGUST

| Year | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885 | 71.7        | 95      | 40     | 6.11          | 10.09    | 3.47  | .....      | .....         | .....  | .....                  |
| 1886 | 69.5        | 96      | 42     | 2.81          | 5.36     | 1.10  | .....      | .....         | .....  | 8                      |
| 1887 | 70.4        | 94      | 42     | 3.76          | 7.34     | 2.09  | .....      | .....         | .....  | 9                      |
| 1888 | 72.5        | 98      | 41     | 6.13          | 10.53    | 2.55  | .....      | .....         | 8      | 10                     |
| 1889 | 69.6        | 91      | 45     | 5.13          | 9.06     | 1.93  | .....      | .....         | .....  | 8                      |
| 1890 | 71.5        | 99      | 40     | 4.90          | 7.51     | 2.89  | 8          | 15            | .....  | 11                     |
| 1891 | 72.8        | 100     | 46     | 5.32          | 8.89     | 2.58  | 8          | 11            | 12     | 13                     |
| 1892 | 73.4        | 99      | 46     | 3.63          | 5.65     | 0.72  | 12         | 13            | 6      | 9                      |
| 1893 | 72.8        | 98      | 38     | 6.52          | 11.94    | 3.55  | 14         | 11            | 6      | 8                      |
| 1894 | 70.9        | 97      | 44     | 2.58          | 9.28     | 0.15  | 13         | 12            | 6      | 7                      |
| 1895 | 74.2        | 102     | 34     | 2.53          | 5.06     | 0.02  | 16         | 12            | 3      | 7                      |
| 1896 | 73.6        | 105     | 39     | 1.83          | 3.27     | 0.50  | 17         | 10            | 4      | 7                      |
| 1897 | 71.0        | 91      | 41     | 4.39          | 8.69     | 2.07  | 14         | 12            | 5      | 9                      |
| 1898 | 74.8        | 98      | 42     | 5.36          | 9.28     | 2.70  | 12         | 12            | 7      | 10                     |
| 1899 | 72.3        | 99      | 39     | 4.36          | 9.70     | 2.16  | 10         | 12            | 9      | 9                      |
| 1900 | 76.3        | 104     | 41     | 2.68          | 4.56     | 0.70  | 15         | 11            | 5      | 10                     |
| 1901 | 73.8        | 98      | 44     | 9.43          | 15.80    | 4.88  | 12         | 10            | 9      | 11                     |
| 1902 | 70.1        | 93      | 40     | 3.91          | 10.67    | 1.31  | 15         | 13            | 3      | 9                      |
| 1903 | 68.4        | 98      | 39     | 6.95          | 11.51    | 4.30  | 10         | 10            | 11     | 13                     |
| 1904 | 70.8        | 92      | 37     | 6.62          | 13.01    | 2.65  | 15         | 10            | 6      | 9                      |
| 1905 | 71.1        | 95      | 38     | 5.72          | 9.88     | 3.51  | 13         | 10            | 8      | 12                     |
| 1906 | 74.6        | 97      | 42     | 5.95          | 17.91    | 2.21  | 10         | 11            | 10     | 13                     |
| 1907 | 70.5        | 96      | 39     | 3.45          | 7.61     | 1.79  | 14         | 12            | 5      | 10                     |
| 1908 | 70.6        | 103     | 36     | 5.05          | 9.23     | 2.43  | 11         | 10            | 10     | 10                     |
| 1909 | 70.2        | 100     | 34     | 4.59          | 12.94    | 1.41  | 14         | 9             | 8      | 6                      |
| 1910 | 70.4        | 92      | 36     | 3.78          | 8.46     | 1.76  | 9          | 10            | 12     | 10                     |
| 1911 | 72.1        | 101     | 39     | 8.91          | 14.74    | 5.31  | 10         | 11            | 10     | 11                     |
| 1912 | 70.0        | 95      | 35     | 3.42          | 7.62     | 1.19  | 12         | 13            | 6      | 10                     |
| 1913 | 71.7        | 100     | 38     | 4.06          | 10.21    | 1.93  | 18         | 9             | 4      | 10                     |
| 1914 | 73.3        | 98      | 46     | 3.15          | 6.53     | 1.04  | 13         | 12            | 6      | 9                      |
| 1915 | 70.9        | 98      | 41     | 7.73          | 10.92    | 4.02  | 11         | 11            | 9      | 13                     |
| 1916 | 73.2        | 100     | 40     | 1.34          | 4.15     | 0.27  | 20         | 7             | 4      | 6                      |
| 1917 | 74.0        | 103     | 42     | 2.21          | 5.68     | 0.86  | 18         | 9             | 4      | 8                      |
| 1918 | 74.4        | 108     | 40     | 1.85          | 4.25     | 0.34  | 18         | 7             | 6      | 7                      |
| 1919 | 69.9        | 98      | 38     | 6.89          | 12.88    | 3.09  | 13         | 10            | 8      | 13                     |
| 1920 | 72.3        | 94      | 42     | 6.10          | 10.60    | 2.94  | 8          | 11            | 12     | 17                     |
| 1921 | 69.8        | 97      | 38     | 4.32          | 8.01     | 2.05  | 18         | 7             | 6      | 9                      |
| 1922 | 71.2        | 96      | 39     | 4.03          | 6.78     | 2.18  | 13         | 9             | 9      | 12                     |
| 1923 | 70.8        | 98      | 35     | 2.44          | 4.81     | 1.23  | 17         | 8             | 6      | 8                      |
| 1924 | 71.9        | 102     | 38     | 4.40          | 9.48     | 1.82  | 18         | 8             | 5      | 8                      |
| 1925 | 71.0        | 93      | 35     | 2.10          | 4.12     | 0.94  | 20         | 6             | 5      | 7                      |



## Climatological Data for August, 1925

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 34                      | 71.4                         | +0.4                      | 93      | 26†   | 45     | 22†   | 40                       | 0.94  | -3.67                     | 0.41                 | 0                         | 5                            | 25    | 1          | 5                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 33                      | 66.6*                        | -1.3                      | 89      | 18†   | 35     | 28    | 44                       | 1.82  | -2.80                     | 0.97                 | 0                         | 6                            | 20    | 4          | 7                            | w.        |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848             | 24                      | .....                        | .....                     | .....   | ..... | 42     | 28    | .....                    | 4.05  | -0.37                     | 1.68                 | 0                         | 9                            | 24    | 1          | 6                            | n.        |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 41                      | 69.4                         | +0.3                      | 90      | 31    | 41     | 28†   | 39                       | 2.48  | -2.28                     | 0.91                 | 0                         | 6                            | 8     | 19         | 4                            | .....     |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 24                      | 68.2                         | -0.2                      | 90      | 25†   | 35     | 28    | 38                       | 1.61  | -2.29                     | 0.52                 | 0                         | 6                            | 20    | 4          | 7                            | w.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 42                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 42                      | 71.0                         | -0.8                      | 93      | 31    | 45     | 28†   | 41                       | 2.21  | -2.41                     | 1.50                 | 0                         | 5                            | 22    | 5          | 4                            | .....     |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | .....                                                                                                                    |
| Means and extremes...                       |                 |                 |                         | 69.3                         | -0.3                      | 93      | 26†   | 35     | 28    | 44                       | 2.18  | -2.30                     | 1.68                 | 0                         | 6                            | 20    | 6          | 5                            | w.        |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37              | 28                      | 72.8*                        | +0.6                      | 92      | 26    | 51     | 24    | 31                       | 1.45  | -3.61                     | 0.62                 | 0                         | 7                            | 13    | 16         | 2                            | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                                | Morris.....     | 400             | 35                      | 69.2                         | -2.1                      | 91      | 26†   | 40     | 29    | 40                       | 1.95  | -3.13                     | 0.56                 | 0                         | 9                            | 25    | 0          | 6                            | nw.       |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 21                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.47  | -2.94                     | 0.63                 | 0                         | 6                            | 26    | 3          | 2                            | .....     |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 46                      | .....                        | .....                     | 93      | 26    | .....  | ..... | .....                    | 1.64  | -2.65                     | 0.69                 | 0                         | 6                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 39                      | 72.4                         | -0.1                      | 93      | 26†   | 45     | 29    | 38                       | 2.47  | -2.24                     | 0.89                 | 0                         | 7                            | 24    | 2          | 5                            | w.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                             | Bergen.....     | 90              | 37                      | 68.8                         | -2.0                      | 87      | 26†   | 42     | 28    | 31                       | 1.99  | -2.76                     | 0.81                 | 0                         | 8                            | 17    | 6          | 8                            | nw.       |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 27                      | 72.8                         | -1.3                      | 92      | 26    | 51     | 22    | 28                       | 1.53  | -3.00                     | 0.60                 | 0                         | 6                            | 13    | 12         | 6                            | n.        |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 38                      | 71.2                         | -1.2                      | 90      | 31    | 47     | 22†   | 32                       | 1.61  | -3.05                     | 0.75                 | 0                         | 5                            | 22    | 5          | 4                            | w.        |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 32                      | 69.9                         | -3.3                      | 93      | 31    | 42     | 27    | 45                       | 1.29  | -3.11                     | 0.24                 | 0                         | 9                            | 23    | 4          | 4                            | nw.       | Passaic Consolid. Water Co.<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                    |
| New Brunswick.....                          | Middlesex.....  | 110             | 72                      | 71.2                         | -0.9                      | 90      | 26†   | 46     | 29    | 33                       | 2.07  | -3.08                     | 0.69                 | 0                         | 9                            | 22    | 4          | 5                            | w.        |                                                                                                                          |
| New Milford††.....                          | Bergen.....     | 9               | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 54                      | 72.8                         | +0.6                      | 93      | 31    | 46     | 28    | 32                       | 1.28  | -3.45                     | 0.32                 | 0                         | 7                            | 17    | 5          | 9                            | nw.       |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120             | 37                      | 69.7*                        | -2.1                      | 91      | 26    | 45     | 22†   | 36                       | 2.21  | -3.00                     | 1.21                 | 0                         | 5                            | 18    | 8          | 5                            | w.        | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                     |
| Ridgefield††.....                           | Bergen.....     | 80              | 7                       | 70.5                         | .....                     | 90      | 26    | 46     | 28    | 30                       | 1.79  | .....                     | 0.41                 | 0                         | 7                            | 16    | 9          | 6                            | nw.       |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70              | 42                      | 72.0                         | -0.4                      | 93      | 31    | 45     | 28†   | 39                       | 2.60  | -2.24                     | 1.16                 | 0                         | 6                            | 27    | 2          | 2                            | w.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 55                      | 70.2                         | -0.7                      | 87      | 31    | 50     | 22    | 26                       | 1.53  | -3.55                     | 0.74                 | 0                         | 3                            | 15    | 9          | 7                            | w.        |                                                                                                                          |
| Woodcliff Lake†.....                        | Bergen.....     | 100             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | .....                                                                                                                    |
| New York, N. Y.....                         |                 | 365             | 55                      | 71.9                         | -1.2                      | 89      | 26    | 54     | 22    | 25                       | 1.64  | -2.89                     | 0.62                 | 0                         | 7                            | 12    | 11         | 8                            | s.        | U. S. Weather Bureau.                                                                                                    |
| Means and extremes...                       |                 |                 |                         | 71.0                         | -1.1                      | 93      | 26†   | 40     | 29    | 45                       | 1.79  | -2.99                     | 1.21                 | 0                         | 7                            | 20    | 6          | 5                            | w.        |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belleplain.....                             | Cape May.....   | 30              | 31                      | 69.2*                        | -3.4                      | 92      | 14†   | 36     | 29    | 46                       | 4.12  | -0.18                     | 3.37                 | 0                         | 8                            | 21    | 4          | 6                            | .....     | Thomas J. Durell.<br>Harold K. Tryon.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                              | Cumberland..... | 90              | 44                      | 72.2                         | -2.8                      | 90      | 10†   | 47     | 29    | 33                       | 2.33  | -2.26                     | 0.79                 | 0                         | 8                            | 15    | 10         | 6                            | w.        |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 39                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 29                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Freehold.....                               | Monmouth.....   | 180             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.35  | -3.36                     | 0.38                 | 0                         | 6                            | ..... | .....      | .....                        | .....     | County Agr'l Agent.<br>Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.                               |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Indian Mills††.....                         | Burlington..... | 76              | 36                      | 71.4                         | -1.2                      | 92      | 26    | 42     | 29    | 44                       | 2.04  | -3.89                     | 0.96                 | 0                         | 6                            | 19    | 8          | 4                            | nw.       | James M. Armstrong.<br>R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.               |
| Lakewood.....                               | Ocean.....      | 54              | 21                      | 70.8                         | -0.3                      | 88      | 10†   | 47     | 29    | 29                       | 2.14  | -3.91                     | 0.65                 | 0                         | 9                            | 22    | 4          | 5                            | w.        |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75              | 62                      | 72.1                         | -0.5                      | 93      | 26    | 46     | 29    | 35                       | 1.36  | -3.53                     | 0.44                 | 0                         | 7                            | 22    | 5          | 4                            | nw.       |                                                                                                                          |
| Northfield†.....                            | Atlantic.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.95  | -1.40                     | 1.17                 | 0                         | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville††.....                        | Atlantic.....   | 26              | 27                      | 69.8                         | .....                     | 90      | 14†   | 42     | 29    | 37                       | 3.84  | -1.09                     | 1.39                 | 0                         | 10                           | 17    | 11         | 3                            | ne.       | .....                                                                                                                    |
| Runyon††.....                               | Middlesex.....  | 18              | .....                   | 70.1                         | .....                     | 92      | 26†   | 36     | 29    | 45                       | 1.75  | .....                     | 0.45                 | 0                         | 7                            | 22    | 7          | 2                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                                | Mercer.....     | 190             | 53                      | 72.2                         | -0.8                      | 90      | 26    | 51     | 28    | 28                       | 1.15  | -4.22                     | 0.41                 | 0                         | 7                            | 13    | 10         | 8                            | sv.       |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 32                      | 72.5                         | -0.2                      | 93      | 20    | 45     | 30    | 38                       | 1.86  | -3.68                     | 1.01                 | 0                         | 4                            | 24    | 5          | 2                            | w.        |                                                                                                                          |
| Vineyard.....                               | Cumberland..... | 109             | 56                      | 73.4                         | -0.3                      | 92      | 10    | 47     | 29    | 36                       | 2.87  | -1.94                     | 0.92                 | 0                         | 6                            | 21    | 5          | 5                            | sw.       |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 74.8                         | 0.0                       | 92      | 26    | 54     | 28    | 26                       | 2.01  | -2.60                     | 1.09                 | 0                         | 7                            | 15    | 10         | 6                            | sw.       | .....                                                                                                                    |
| Means and extremes...                       |                 |                 |                         | 71.4                         | -1.2                      | 93      | 20†   | 36     | 29    | 46                       | 2.31  | -2.68                     | 3.37                 | 0                         | 7                            | 20    | 7          | 4                            | w.        |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 36                      | 71.4                         | -0.4                      | 91      | 26    | 53     | 22    | 27                       | 2.70  | -2.36                     | 0.80                 | 0                         | 7                            | 25    | 4          | 2                            | sw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 51                      | 71.9                         | -0.6                      | 90      | 14    | 53     | 22    | 20                       | 2.88  | -1.42                     | 1.51                 | 0                         | 6                            | 17    | 10         | 4                            | w.        |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 41                      | 72.5                         | -0.9                      | 91      | 10    | 52     | 28    | 22                       | 3.38  | -0.88                     | 1.95                 | 0                         | 7                            | 15    | 10         | 6                            | sw.       |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 18                      | 70.7                         | -0.3                      | 91      | 26    | 52     | 29    | 30                       | 1.74  | -4.39                     | 0.60                 | 0                         | 4                            | 19    | 7          | 5                            | w.        |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 27                      | 72.8                         | 0.0                       | 90      | 26    | 57     | 28    | 24                       | 1.19  | -3.35                     | 0.33                 | 0                         | 7                            | 15    | 10         | 6                            | sw.       | .....                                                                                                                    |
| Means and extremes...                       |                 |                 |                         | 71.9                         | -0.4                      | 91      | 10†   | 52     | 28†   | 30                       | 2.38  | -2.48                     | 1.95                 | 0                         | 6                            | 18    | 8          | 5                            | sw.       |                                                                                                                          |
| For the State.....                          |                 |                 |                         | 71.0                         | -0.9                      | 93      | 20†   | 35     | 28    | 46                       | 2.10  | -2.71                     | 3.37                 | 0                         | 7                            | 20    | 6          | 5                            | w.        |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere.



## Daily Precipitation for August, 1925

| Stations                                   | Drainage Basin  | Day of month |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    | Total |      |
|--------------------------------------------|-----------------|--------------|---|---|-----|------|------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|----|----|----|-------|------|
|                                            |                 | 1            | 2 | 3 | 4   | 5    | 6    | 7   | 8   | 9    | 10   | 11  | 12  | 13  | 14  | 15  | 16  | 17 | 18 | 19 | 20 | 21  | 22  | 23  | 24  | 25 | 26 | 27 | 28 | 29 | 30 | 31 |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Belvidere.....                             | Delaware.....   |              |   |   |     | .19  | .13  |     |     |      |      |     |     | .02 |     | .19 |     |    |    |    |    |     | .41 |     |     |    |    |    |    |    |    |    | 0.94  |      |
| Charlotteburg.....                         | Passaic.....    |              |   |   |     | .18  | .03  |     | .05 | .97  |      |     |     |     |     | .32 |     |    |    |    |    |     | .27 |     |     |    |    |    |    |    |    |    | 1.82  |      |
| Culvers Lake.....                          | Delaware.....   |              |   |   |     | .10  | .12  | .01 | .03 | .14  | 1.68 |     |     |     |     | .22 | .28 |    |    |    |    |     | .47 |     |     |    |    |    |    |    |    |    | 4.05  |      |
| Dover.....                                 | Passaic.....    |              |   |   |     | .36  | .33  |     |     | .91  |      |     |     |     |     | .20 | .33 |    |    |    |    |     | .35 |     |     |    |    |    |    |    |    |    | 2.48  |      |
| Layton.....                                | Delaware.....   |              |   |   |     | .10  | .09  |     | T   | .52  |      |     |     |     | .31 | .16 |     |    |    |    |    |     | .43 |     |     |    |    |    |    |    |    |    | 1.61  |      |
| Newton.....                                | Delaware.....   |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    | 2.21  |      |
| Phillipsburg.....                          | do.....         |              |   |   |     | .14  |      |     | .63 | .87  |      |     |     |     | .21 |     |     |    |    |    |    | T   | .36 |     |     |    |    |    |    |    |    |    |       |      |
| Sussex.....                                | Hudson.....     |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Bergen Point**.....                        | Coast.....      |              |   |   |     | .15  | .01  |     |     | .58  | .04  |     |     |     | .08 | .03 |     |    |    |    |    |     | .56 |     |     |    |    |    |    |    |    |    | 1.45  |      |
| Boonton   .....                            | Passaic.....    |              |   |   |     | T    | .30  | T   | .19 | .18  | .56  |     |     |     | .22 | .23 | .02 |    |    |    |    |     | .05 | .20 |     |    |    |    |    |    |    |    | 1.95  |      |
| Chatham   .....                            | do.....         |              |   |   |     | T    | .19  |     |     | .26  | .63  |     |     |     | .07 |     |     | T  |    |    |    |     | .04 | .28 |     |    |    |    |    |    |    |    | 1.47  |      |
| Elizabeth.....                             | Coast.....      |              |   |   |     | .20  |      |     |     | .69  | .03  |     |     |     | .10 | .10 |     |    |    |    |    |     | .52 |     |     |    |    |    |    |    |    |    | 1.64  |      |
| Flemington.....                            | Raritan.....    |              |   |   | T   | .44  |      |     |     | .89  | .71  |     |     |     | .11 | T   |     |    |    |    |    |     | .32 |     |     |    |    |    |    |    |    |    | 2.47  |      |
| Highwood.....                              | Hackensack..... |              |   |   |     | .23  | .02  |     |     | T    | .09  | .14 | .12 |     | .16 | .81 |     |    |    |    |    |     | .42 |     |     |    |    |    |    |    |    |    | 1.99  |      |
| Jersey City.....                           | Coast.....      |              |   |   |     | .21  | T    | .05 |     | .35  |      | T   |     |     | .07 | .25 |     |    |    |    |    | T   | .60 |     |     |    |    |    |    |    |    |    | 1.53  |      |
| Lambertville.....                          | Delaware.....   |              |   |   |     | .31  | T    |     |     | .75  | .08  |     |     |     | .09 |     |     |    |    |    |    |     | .38 |     |     |    |    |    |    |    |    |    | 1.61  |      |
| Little Falls.                              | Passaic.....    |              |   |   |     | T    | .21  | T   |     | .15  | .24  | .09 |     |     | .18 | .08 | .01 |    | T  |    |    |     | .14 | .19 |     |    |    |    |    |    |    |    | 1.29  |      |
| New Brunswick.....                         | Raritan.....    |              |   |   |     | .21  | .02  |     |     | .32  | .34  | .02 |     |     | .13 | .69 |     |    |    |    |    |     | .30 |     |     |    |    |    |    |    |    |    | .04   | 2.07 |
| New Milford.**.....                        | Hackensack..... |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    | 1.28  |      |
| Paterson.....                              | Passaic.....    |              |   |   |     | .20  |      |     |     | .10  | .18  | .10 |     |     | .18 | .20 |     |    |    |    |    |     | .32 |     |     |    |    |    |    |    |    |    | 2.21  |      |
| Plainfield.....                            | Raritan.....    |              |   |   |     | .23  | T    |     |     | 1.21 |      |     |     |     | .12 | .16 |     |    |    |    |    |     | .49 |     |     |    |    |    |    |    |    |    | 1.79  |      |
| Ridgefield.....                            | Hackensack..... |              |   |   |     | .20  | .03  |     |     | T    | .30  |     | .02 |     | .20 | .28 |     |    |    |    |    |     | .41 |     |     |    |    |    |    |    | T  |    | 2.60  |      |
| Somerville.....                            | Raritan.....    |              |   |   |     | .21  |      |     |     | 1.16 | .34  |     |     |     | .10 | .41 |     |    |    |    |    |     | .38 |     |     |    |    |    |    |    |    |    | 1.53  |      |
| South Orange.....                          | Rahway.....     |              |   |   |     | .24  | T    |     |     | .74  |      | T   |     |     | T   |     |     |    |    |    |    |     | .55 |     |     |    |    |    |    |    |    |    |       |      |
| Woodcliff Lake**.....                      | Hackensack..... |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    | 1.64  |      |
| New York, N. Y.***.....                    | Coast.....      |              |   |   |     | .20  | .01  | T   | T   | .46  |      | .02 | T   |     | .08 | .25 |     |    |    |    |    | T   | .62 |     |     |    |    |    |    |    |    |    |       |      |
| <i>The Southern Interior.</i>              |                 |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |   |   |     | 3.37 |      |     |     | .07  | .03  |     |     | .03 | .01 |     |     |    |    |    |    | .11 | .48 | .02 |     |    |    |    |    |    |    |    | 4.12  |      |
| Bridgeton.....                             | Coast.....      |              |   |   | T   | .79  | T    |     |     | .43  | .15  | .02 | T   |     | .04 | .01 |     |    |    |    |    | .56 | .33 |     |     |    |    |    |    |    |    | T  | 2.33  |      |
| Burlington.....                            | Delaware.....   |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Clayton.....                               | Delaware.....   |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Freehold   .....                           | Coast.....      |              |   |   |     |      | .38  |     |     | .24  |      |     |     |     | .03 | .14 |     |    |    |    |    |     | .32 | .24 |     |    |    |    |    |    |    |    | 1.35  |      |
| Hammoncton.....                            | Mullica.....    |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Hightstown.....                            | Raritan.....    |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Imlaystown.....                            | Delaware.....   |              |   |   |     | .24  |      |     |     | .72  |      |     |     |     | \$  | \$  |     |    |    |    |    |     | \$  |     |     |    |    |    |    |    |    |    | \$    |      |
| Indian Mills.....                          | Mullica.....    |              |   |   |     | .96  |      |     |     | T    | .38  | .05 |     |     | .10 | .05 |     |    |    |    |    | T   | .50 |     |     |    |    |    |    |    |    |    | 2.04  |      |
| Lakewood.....                              | Metedeconk..... |              |   |   | .05 | .65  | .02  | T   |     | .08  | .12  |     |     |     | .10 | .50 |     |    |    |    |    |     | .50 |     |     |    |    |    |    |    |    |    | .12   |      |
| Moorestown.....                            | Delaware.....   |              |   |   |     | .35  | .02  |     |     | .38  |      | .05 |     |     | .11 |     |     |    |    |    |    |     | .01 | .44 |     |    |    |    |    |    |    |    | 1.36  |      |
| Northfield.....                            | Coast.....      |              |   |   |     | 1.17 | .01  |     |     | .49  | .07  |     | T   |     | .04 |     |     |    |    |    |    |     | .47 | .70 |     |    |    |    |    |    |    |    | 2.95  |      |
| Pleasantville   .....                      | Coast.....      |              |   |   |     | .17  | 1.39 |     |     | .63  | .02  |     |     |     | .05 | .01 |     |    |    |    |    |     | .47 | .44 | .20 |    |    |    |    |    |    |    | .46   |      |
| Runyon.....                                | Coast.....      |              |   |   |     | .21  |      |     |     | .39  | .45  | .10 |     |     | .09 | .15 |     |    |    |    |    |     | .36 |     |     |    |    |    |    |    |    |    | 3.84  |      |
| Trenton**.....                             | Delaware.....   |              |   |   |     | T    | .30  | .01 |     | .09  | .32  | .02 |     |     | .06 |     |     |    |    |    |    |     | T   | .35 |     |    |    |    |    |    |    |    | 1.75  |      |
| Tuckerton.....                             | Coast.....      |              |   |   |     | 1.01 |      |     |     | .10  | .05  |     |     |     |     |     |     |    |    |    |    |     | .70 |     |     |    |    |    |    |    |    |    | 1.15  |      |
| Vineland.....                              | Maurice.....    |              |   |   |     | .85  |      |     |     | .52  | .92  |     |     |     | .07 |     |     |    |    |    |    |     | .09 | .42 |     |    |    |    |    |    |    |    | 2.87  |      |
| Phila., Pa***.....                         | Delaware.....   |              |   |   |     | T    | .26  |     |     | .16  | .93  | .04 |     |     | .05 |     |     |    |    |    |    | .01 | T   | .56 |     |    |    |    |    |    |    |    | 2.01  |      |
| <i>The Sea Coast.</i>                      |                 |              |   |   |     |      |      |     |     |      |      |     |     |     |     |     |     |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |       |      |
| Asbury Park.....                           | Coast.....      |              |   |   |     | .02  | .64  |     |     | .54  |      | .03 |     |     | .07 | .73 |     |    |    |    |    |     | T   | .67 |     |    |    |    |    |    |    |    | 2.70  |      |
| Atlantic City***.....                      | do.....         |              |   |   |     | 1.50 | .02  |     |     | .33  |      |     | T   |     | .01 |     |     |    |    |    |    |     | .34 | .68 |     |    |    |    |    |    |    |    | 2.88  |      |
| Cape May City.....                         | do.....         |              |   |   |     | 1.02 | .02  |     |     | 1.95 |      |     | .05 |     |     | .06 |     |    |    |    |    |     | .10 | .18 |     |    |    |    |    |    |    |    | 3.38  |      |
| Long Branch**.....                         | do.....         |              |   |   |     | T    | .45  |     |     | .24  |      |     |     |     | T   | .60 |     |    |    |    |    |     |     | .45 |     |    |    |    |    |    |    | T  | 1.74  |      |
| Sandy Hook***.....                         | do.....         |              |   |   |     | .25  | .01  |     |     | T    | .27  | T   | .02 |     | .05 | .28 |     |    |    |    |    |     | T   | .31 |     |    |    |    |    |    |    |    | T     | 1.19 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture                               |                                         | Sun-<br>shine                      |       |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------------------------------------|-----------------------------------------|------------------------------------|-------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 8 p m | Percentage of<br>possible sunshine |       |
|                       |              |         |      |        |      |                 | Miles per hour | Direction |                                        |                                         |                                    |       |
|                       |              |         |      |        |      |                 |                |           |                                        |                                         |                                    | Date  |
| Atlantic City.....    | 30.07        | 30.45   | 24   | 29.75  | 21   | 12.7            | 40             | ne.       | 27                                     | 77                                      | 74                                 | 72    |
| Cape May City.....    | 30.12        | 30.49   | 24   | 29.78  | 21   | 5.2             | 16             | ne.       | 27                                     | 82                                      | 79                                 | ..... |
| Long Branch.....      | 30.07        | 30.43   | 24   | 29.73  | 1    | 12.2            | 40             | nw.       | 20                                     | 76                                      | 68                                 | 71    |
| New York, N. Y.....   | 30.08        | 30.46   | 24   | 29.78  | 13   | 7.2             | 25             | ne.       | 27                                     | 76                                      | 66                                 | 77    |
| Philadelphia, Pa..... | 30.07        | 30.45   | 24   | 29.73  | 1    | .....           | .....          | .....     | .....                                  | .....                                   | .....                              | ..... |
| Ridgefield.....       | 30.06        | 30.44   | 24   | 29.70  | 1    | 11.4            | 38             | sw.       | 11                                     | 76                                      | 72                                 | 82    |
| Sandy Hook.....       | 30.07        | 30.44   | 24   | 29.74  | 1    | 7.7             | 27             | n.        | 27                                     | 78                                      | 70                                 | 78    |
| Trenton.....          | 30.07        | 30.44   | 24   | 29.74  | 1    | 7.7             | 27             | n.        | 27                                     | 78                                      | 70                                 | 78    |



## Daily Temperatures for August, 1925

| Stations                             | 1       | 2  | 3  | 4  | 5    | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean              |                   |      |      |
|--------------------------------------|---------|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |      |
| Belvidere.....                       | Maximum | 79 | 84 | 88 | 87   | 76 | 76 | 84 | 88 | 81 | 89 | 88 | 80 | 76 | 90 | 88 | 92 | 91 | 87 | 90 | 88 | 81 | 79 | 84 | 89 | 92 | 93 | 80 | 78 | 83 | 87 | 93                | 85.2              |      |      |
|                                      | Minimum | 60 | 55 | 56 | 60   | 65 | 62 | 59 | 57 | 63 | 64 | 65 | 55 | 62 | 68 | 60 | 58 | 61 | 63 | 63 | 65 | 55 | 45 | 48 | 51 | 55 | 56 | 54 | 47 | 45 | 47 | 60                | 57.5              |      |      |
| Charlotteburg.....                   | Maximum | 70 | 74 | 84 | 88   | 78 | 72 | 80 | 87 | 80 | 87 | 82 | 80 | 78 | 76 | 79 | 81 | 87 | 89 | 89 | 85 | 79 | 70 | 80 | 86 | 88 | 89 | 87 | 69 | 74 | 77 | 88                | 81.5              |      |      |
|                                      | Minimum | 55 | 55 | 52 | 61   | 50 | 55 | 52 | 60 | 60 | 65 | 52 | 57 | 60 | 58 | 56 | 52 | 54 | 57 | 57 | 52 | 38 | 36 | 44 | 48 | 49 | 49 | 35 | 36 | 40 | 52 | 51.8 <sup>b</sup> |                   |      |      |
| Dover.....                           | Maximum | 75 | 85 | 84 | 87   | 80 | 73 | 83 | 88 | 79 | 87 | 81 | 79 | 70 | 86 | 83 | 85 | 86 | 87 | 87 | 85 | 74 | 75 | 82 | 84 | 88 | 89 | 79 | 73 | 78 | 83 | 90                | 82.2              |      |      |
|                                      | Minimum | 62 | 53 | 57 | 58   | 64 | 62 | 60 | 58 | 64 | 65 | 63 | 55 | 62 | 67 | 61 | 58 | 58 | 59 | 62 | 64 | 50 | 43 | 43 | 49 | 54 | 56 | 52 | 41 | 41 | 48 | 62                | 56.5              |      |      |
| Layton.....                          | Maximum | 75 | 81 | 83 | 86   | 73 | 74 | 83 | 84 | 76 | 89 | 84 | 81 | 70 | 82 | 85 | 88 | 87 | 88 | 86 | 84 | 71 | 72 | 79 | 86 | 90 | 89 | 74 | 73 | 76 | 81 | 90                | 81.3              |      |      |
|                                      | Minimum | 61 | 54 | 55 | 57   | 62 | 62 | 57 | 57 | 62 | 63 | 63 | 53 | 62 | 64 | 57 | 57 | 58 | 60 | 60 | 55 | 39 | 45 | 50 | 54 | 53 | 51 | 35 | 42 | 44 | 55 | 55.1              |                   |      |      |
| Newton.....                          | Maximum | 76 | 87 | 85 | 85   | 72 | 75 | 84 | 86 | 82 | 88 | 86 | 81 | 78 | 88 | 86 | 89 | 89 | 88 | 89 | 87 | 70 | 76 | 81 | 86 | 89 | 92 | 78 | 73 | 80 | 89 | 93                | 83.5              |      |      |
|                                      | Minimum | 62 | 56 | 56 | 61   | 66 | 63 | 62 | 58 | 64 | 65 | 68 | 56 | 64 | 69 | 62 | 59 | 61 | 63 | 62 | 55 | 48 | 48 | 51 | 56 | 57 | 57 | 45 | 45 | 48 | 60 | 58.6              |                   |      |      |
| Phillipsburg.....                    | Maximum | 76 | 87 | 85 | 85   | 72 | 75 | 84 | 86 | 82 | 88 | 86 | 81 | 78 | 88 | 86 | 89 | 89 | 88 | 89 | 87 | 70 | 76 | 81 | 86 | 89 | 92 | 78 | 73 | 80 | 89 | 93                | 83.5              |      |      |
|                                      | Minimum | 62 | 56 | 56 | 61   | 66 | 63 | 62 | 58 | 64 | 65 | 68 | 56 | 64 | 69 | 62 | 59 | 61 | 63 | 62 | 55 | 48 | 48 | 51 | 56 | 57 | 57 | 45 | 45 | 48 | 60 | 58.6              |                   |      |      |
| Sussex.....                          | Maximum | 76 | 87 | 85 | 85   | 72 | 75 | 84 | 86 | 82 | 88 | 86 | 81 | 78 | 88 | 86 | 89 | 89 | 88 | 89 | 87 | 70 | 76 | 81 | 86 | 89 | 92 | 78 | 73 | 80 | 89 | 93                | 83.5              |      |      |
|                                      | Minimum | 62 | 56 | 56 | 61   | 66 | 63 | 62 | 58 | 64 | 65 | 68 | 56 | 64 | 69 | 62 | 59 | 61 | 63 | 62 | 55 | 48 | 48 | 51 | 56 | 57 | 57 | 45 | 45 | 48 | 60 | 58.6              |                   |      |      |
| The Red Sandstone Plain.             |         |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |      |
| Bergen Point.....                    | Maximum | 79 | 83 | 87 | 88   | 73 | 73 | 84 | 89 | 78 | 90 | 87 | 79 | 75 | 89 | 84 | 86 | 84 | 81 | 84 | 89 | 72 | 72 | 83 | 82 | 86 | 92 | 79 | 72 | 79 | 86 | 91                | 82.8 <sup>a</sup> |      |      |
|                                      | Minimum | 63 | 58 | 67 | 67   | 67 | 67 | 65 | 65 | 65 | 65 | 71 | 66 | 65 | 70 | 64 | 69 | 67 | 68 | 65 | 68 | 57 | 52 | 53 | 51 | 60 | 62 | 52 | 52 | 62 | 55 | 65                | 62.9 <sup>a</sup> |      |      |
| Boonton§§.....                       | Maximum | 77 | 82 | 86 | 87   | 71 | 77 | 82 | 87 | 81 | 88 | 85 | 85 | 72 | 87 | 85 | 89 | 89 | 90 | 87 | 85 | 67 | 75 | 82 | 86 | 89 | 91 | 72 | 73 | 79 | 80 | 91                | 82.5              |      |      |
|                                      | Minimum | 59 | 58 | 58 | 58   | 62 | 62 | 60 | 56 | 63 | 63 | 67 | 54 | 60 | 63 | 60 | 56 | 58 | 59 | 59 | 60 | 47 | 42 | 47 | 52 | 53 | 54 | 42 | 40 | 45 | 58 | 55.8              |                   |      |      |
| Elizabeth.....                       | Maximum | 78 | 84 | 88 | 89   | 77 | 77 | 85 | 89 | 80 | 92 | 90 | 88 | 79 | 90 | 88 | 90 | 90 | 87 | 89 | 89 | 76 | 76 | 86 | 89 | 93 | 93 | 77 | 80 | 85 | 92 | 86.0 <sup>b</sup> |                   |      |      |
|                                      | Minimum | 64 | 57 | 61 | 67   | 64 | 63 | 60 | 65 | 69 | 67 | 64 | 69 | 63 | 63 | 60 | 65 | 66 | 66 | 66 | 58 | 50 | 48 | 56 | 60 | 58 | 48 | 48 | 45 | 51 | 60 | 60.4              |                   |      |      |
| Flemington.....                      | Maximum | 78 | 84 | 87 | 85   | 74 | 75 | 85 | 87 | 82 | 90 | 89 | 86 | 81 | 89 | 85 | 91 | 89 | 89 | 88 | 78 | 76 | 82 | 89 | 92 | 93 | 82 | 77 | 82 | 85 | 93 | 84.9              |                   |      |      |
|                                      | Minimum | 63 | 57 | 59 | 63   | 67 | 64 | 64 | 60 | 65 | 67 | 70 | 58 | 64 | 70 | 65 | 61 | 61 | 63 | 63 | 67 | 59 | 50 | 47 | 51 | 56 | 58 | 48 | 45 | 51 | 60 | 59.8              |                   |      |      |
| Highwood.....                        | Maximum | 76 | 80 | 82 | 83   | 75 | 74 | 79 | 84 | 77 | 85 | 83 | 76 | 71 | 85 | 80 | 83 | 82 | 84 | 82 | 83 | 72 | 70 | 75 | 79 | 82 | 87 | 78 | 69 | 74 | 79 | 87                | 79.2              |      |      |
|                                      | Minimum | 64 | 57 | 58 | 61   | 67 | 63 | 64 | 59 | 66 | 66 | 66 | 55 | 64 | 68 | 63 | 59 | 61 | 60 | 62 | 63 | 56 | 44 | 47 | 51 | 55 | 57 | 55 | 42 | 43 | 51 | 63                | 58.4              |      |      |
| Jersey City.....                     | Maximum | 76 | 81 | 85 | 88   | 74 | 76 | 81 | 88 | 81 | 88 | 86 | 80 | 77 | 86 | 84 | 89 | 86 | 85 | 86 | 86 | 73 | 73 | 78 | 80 | 84 | 92 | 77 | 74 | 76 | 81 | 91                | 82.0              |      |      |
|                                      | Minimum | 64 | 60 | 64 | 69   | 66 | 65 | 61 | 67 | 66 | 68 | 69 | 64 | 64 | 70 | 68 | 67 | 69 | 67 | 69 | 70 | 56 | 51 | 58 | 60 | 62 | 64 | 56 | 52 | 57 | 59 | 65                | 63.5              |      |      |
| Lambertville.....                    | Maximum | 75 | 79 | 84 | 86   | 71 | 77 | 82 | 86 | 84 | 88 | 84 | 82 | 81 | 85 | 84 | 88 | 87 | 85 | 87 | 84 | 72 | 73 | 80 | 86 | 88 | 89 | 75 | 70 | 79 | 83 | 90                | 82.1              |      |      |
|                                      | Minimum | 61 | 56 | 62 | 68   | 65 | 62 | 64 | 63 | 65 | 68 | 69 | 59 | 68 | 68 | 66 | 61 | 62 | 62 | 64 | 67 | 57 | 47 | 49 | 54 | 60 | 61 | 50 | 47 | 51 | 53 | 60                | 60.3              |      |      |
| Little Falls§§.....                  | Maximum | 79 | 83 | 85 | 80   | 71 | 77 | 83 | 89 | 80 | 89 | 87 | 82 | 76 | 86 | 83 | 81 | 89 | 92 | 88 | 86 | 67 | 72 | 82 | 89 | 92 | 92 | 73 | 80 | 83 | 84 | 93                | 82.4 <sup>a</sup> |      |      |
|                                      | Minimum | 60 | 56 | 56 | 60   | 68 | 62 | 61 | 58 | 64 | 66 | 65 | 55 | 61 | 63 | 61 | 59 | 59 | 59 | 63 | 61 | 61 | 46 | 45 | 45 | 57 | 54 | 42 | 45 | 48 | 58 | 60                | 57.4              |      |      |
| New Brunswick.....                   | Maximum | 77 | 82 | 84 | 86   | 77 | 74 | 83 | 86 | 82 | 88 | 86 | 80 | 77 | 86 | 84 | 85 | 85 | 85 | 87 | 89 | 86 | 81 | 70 | 79 | 85 | 85 | 90 | 89 | 72 | 78 | 82                | 90                | 82.0 |      |
|                                      | Minimum | 64 | 58 | 57 | 62   | 67 | 63 | 63 | 64 | 65 | 66 | 68 | 58 | 64 | 69 | 65 | 60 | 59 | 62 | 65 | 65 | 58 | 47 | 48 | 52 | 55 | 59 | 57 | 47 | 46 | 49 | 62                | 59.5              |      |      |
| Paterson.....                        | Maximum | 80 | 84 | 86 | 88   | 80 | 75 | 83 | 88 | 79 | 90 | 88 | 80 | 76 | 76 | 76 | 89 | 85 | 88 | 86 | 90 | 87 | 87 | 80 | 76 | 81 | 87 | 88 | 92 | 84 | 76 | 80                | 85                | 93   | 84.2 |
|                                      | Minimum | 64 | 59 | 60 | 63   | 65 | 63 | 63 | 66 | 66 | 68 | 66 | 61 | 65 | 70 | 64 | 62 | 64 | 64 | 66 | 66 | 58 | 48 | 53 | 55 | 60 | 62 | 57 | 46 | 50 | 58 | 62                | 61.4 <sup>a</sup> |      |      |
| Plainfield.....                      | Maximum | 79 | 81 | 85 | 87   | 70 | 75 | 82 | 86 | 82 | 87 | 86 | 81 | 79 | 86 | 84 | 88 | 87 | 89 | 87 | 88 | 71 | 73 | 79 | 81 | 85 | 91 | 78 | 77 | 75 | 82 | 90                | 82.3              |      |      |
|                                      | Minimum | 57 | 55 | 57 | 59   | 64 | 65 | 58 | 65 | 64 | 65 | 64 | 55 | 63 | 64 | 63 | 58 | 60 | 59 | 63 | 61 | 61 | 46 | 45 | 45 | 57 | 54 | 42 | 45 | 48 | 58 | 60                | 57.4              |      |      |
| Ridgefield.....                      | Maximum | 76 | 81 | 85 | 86   | 70 | 75 | 81 | 86 | 77 | 85 | 79 | 72 | 86 | 84 | 85 | 87 | 88 | 86 | 86 | 69 | 74 | 79 | 82 | 86 | 90 | 72 | 73 | 75 | 81 | 89 | 81.1              |                   |      |      |
|                                      | Minimum | 61 | 59 | 60 | 63   | 65 | 64 | 64 | 61 | 66 | 68 | 68 | 65 | 70 | 63 | 61 | 63 | 63 | 63 | 66 | 58 | 47 | 50 | 54 | 58 | 60 | 55 | 46 | 47 | 55 | 63 | 59.9              |                   |      |      |
| Somerville.....                      | Maximum | 80 | 81 | 87 | 90   | 78 | 77 | 86 | 90 | 85 | 91 | 88 | 84 | 80 | 90 | 88 | 89 | 90 | 90 | 91 | 89 | 80 | 77 | 82 | 88 | 91 | 91 | 84 | 77 | 83 | 86 | 93                | 85.8              |      |      |
|                                      | Minimum | 63 | 54 | 53 | 60   | 67 | 63 | 64 | 59 | 65 | 64 | 66 | 54 | 64 | 71 | 64 | 58 | 58 | 61 | 65 | 64 | 59 | 46 | 47 | 49 | 55 | 57 | 45 | 45 | 47 | 59 | 58.2              |                   |      |      |
| South Orange.....                    | Maximum | 75 | 79 | 82 | 85   | 70 | 75 | 80 | 84 | 79 | 85 | 84 | 78 | 74 | 86 | 82 | 83 | 83 | 85 | 83 | 67 | 70 | 76 | 81 | 81 | 86 | 70 | 74 | 79 | 74 | 79 | 87                | 79.3              |      |      |
|                                      | Minimum | 59 | 59 | 62 | 63   | 65 | 64 | 62 | 66 | 67 | 67 | 67 | 62 | 65 | 70 | 65 | 62 | 63 | 63 | 65 | 67 | 54 | 50 | 54 | 55 | 61 | 64 | 56 | 51 | 52 | 54 | 62                | 61.1              |      |      |
| New York, N. Y.....                  | Maximum | 75 | 80 | 83 | 86   | 73 | 74 | 79 | 86 | 75 | 87 | 84 | 76 | 74 | 86 | 83 | 86 | 81 | 80 | 82 | 84 | 73 | 71 | 76 | 79 | 81 | 89 | 74 | 73 | 78 | 89 | 79.6              |                   |      |      |
|                                      | Minimum | 64 | 60 | 65 | 69</ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

NEW JERSEY SECTION. OCT 29 1925

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXX.

SEPTEMBER, 1925.

No. 9

## GENERAL SUMMARY.

The first three weeks of September was mostly above normal in warmth, and this was followed by a change to decidedly cooler weather, and frosts were commonly experienced on the 23d and 26th. Clear weather which is a usual feature of September was somewhat deficient, and much more northerly and northwesterly winds prevailed than is normally the case. The occurrences of rain were somewhat irregularly scattered both as to time and location except for one notably rainy period from the 14th to the 17th inclusive, when nearly all the rain of the month fell. At Trenton on the 16th the fall of rain for the 10 minutes commencing 10:31 p. m. amounted to 0.94 inch. Practically no rain fell after the 17th. The deficiency of precipitation for the year throughout the State is steadily increasing, being more marked in the southern half than in the northern.

Nearly all crop progress was practically terminated by the close of the month, and the bulk of commercial production was housed or protected from possible extreme weather damage.

Storm warnings were displayed along the northern coast on the 20th.

## TEMPERATURE.

The monthly mean temperature for the State, as deduced from observations of 33 stations, was 67.8°, which was 2.1° above normal. The highest temperature was 96° at Phillipsburg on the 13th, and the lowest, 25°, at Charlotteburg on the 26th. The greatest daily range of temperature was 48° at Sussex on the 1st. The highest monthly mean temperature was 73.1° at Vineland, and the lowest, 63.4° at Charlotteburg and Layton.

The temperature departure for the normal for the year, 1925, to date, by sections, is: The Highlands, +1.1°; Red Sandstone Plain, +1.0°; Southern Interior, +2.0°; Sea Coast, +2.3°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 40 stations, was 2.92 inches, which was 0.71 inch below normal. The greatest monthly precipitation was 5.81 inches, at Belvidere, and the least, 0.64 inch at Vineland.

The greatest amount of precipitation in any 24 consecutive hours was 2.72 inches at Indian Mills on the 3d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 7, or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, +0.18 inch; Red Sandstone Plain, -3.73 inches; Southern Interior, -6.74 inches; Sea Coast, -7.99 inches.

## WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 11 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive

minutes, was 45 miles per hour from the north at Sandy Hook on the 21st.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which was 4 less than normal; partly cloudy, 11, or 3 more than normal; cloudy, 8, or 1 more than normal. The per cent of possible sunshine was 65, which was 3 per cent below normal.

## MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.04 inches, which was 0.03 inch below normal. The highest reading was 30.56 inches at Ridgefield on the 26th, and the lowest, 29.69 inches at Sandy Hook on the 21st.

The mean stage of the Delaware River at Phillipsburg was 1.8 feet, and the highest 4.9 feet on the 16th. At Trenton the mean stage was 0.9 foot, which was 0.2 foot below the normal. The highest stage, 3.3 feet, occurred on the 16th.

Thunderstorms occurred on the 1st, 3d, 4th, 12th to 18th, inclusive, 21st and 28th. Dense fog occurred on the 4th, 11th and 12th. Solar halos were observed on the 1st, 2d, 8th, 16th, 18th and 19th and lunar halos on the 2d, 5th, 21st and 30th. Auroras were observed at Layton on the 15th and 21st. Frosts occurred over the northern half of the State on the 23d being killing in extreme northwestern counties and diminishing gradually toward the south. On the 26th, light to heavy frost was general in all portions of the State except along the shore and Delaware Bay.

## COMPARATIVE DATA FOR SEPTEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 64.2        | 93      | 38     | 0.83          | 1.69     | 0.25  | .....      | .....         | .....  | .....                  |
| 1886..... | 66.9        | 95      | 36     | 1.13          | 1.76     | 0.86  | .....      | .....         | .....  | .....                  |
| 1887..... | 61.6        | 90      | 30     | 3.66          | 6.25     | 1.62  | .....      | .....         | .....  | .....                  |
| 1888..... | 63.1        | 84      | 29     | 7.09          | 10.65    | 3.75  | .....      | .....         | .....  | .....                  |
| 1889..... | 64.8        | 90      | 34     | 8.36          | 13.13    | 3.17  | .....      | .....         | .....  | .....                  |
| 1890..... | 64.4        | 91      | 33     | 4.75          | 8.61     | 2.59  | 10         | 10            | 10     | 10                     |
| 1891..... | 68.7        | 95      | 39     | 2.46          | 5.91     | 0.90  | 16         | 9             | 5      | 6                      |
| 1892..... | 64.2        | 90      | 33     | 1.81          | 3.78     | 1.02  | 15         | 11            | 4      | 6                      |
| 1893..... | 62.7        | 90      | 31     | 3.20          | 5.38     | 1.93  | 12         | 10            | 8      | 8                      |
| 1894..... | 68.8        | 97      | 31     | 7.46          | 11.65    | 3.69  | 10         | 10            | 10     | 8                      |
| 1895..... | 69.7        | 109     | 29     | 1.07          | 2.71     | 0.22  | 17         | 10            | 3      | 5                      |
| 1896..... | 65.1        | 95      | 30     | 4.37          | 8.74     | 2.26  | 19         | 7             | 4      | 5                      |
| 1897..... | 65.5        | 99      | 30     | 1.65          | 3.97     | 0.21  | 19         | 7             | 4      | 5                      |
| 1898..... | 68.6        | 100     | 31     | 2.00          | 3.87     | 0.65  | 17         | 8             | 5      | 6                      |
| 1899..... | 64.4        | 93      | 30     | 5.88          | 9.61     | 2.88  | 15         | 9             | 6      | 9                      |
| 1900..... | 69.9        | 98      | 32     | 2.86          | 7.37     | 1.09  | 14         | 10            | 6      | 6                      |
| 1901..... | 66.8        | 94      | 29     | 3.38          | 6.82     | 1.63  | 15         | 9             | 6      | 10                     |
| 1902..... | 64.6        | 93      | 30     | 5.65          | 8.95     | 3.11  | 11         | 7             | 12     | 13                     |
| 1903..... | 65.0        | 92      | 29     | 3.34          | 7.10     | 1.39  | 17         | 8             | 5      | 7                      |
| 1904..... | 64.8        | 93      | 23     | 4.79          | 10.08    | 0.89  | 14         | 10            | 6      | 7                      |
| 1905..... | 65.4        | 90      | 28     | 5.23          | 9.18     | 2.87  | 16         | 7             | 7      | 8                      |
| 1906..... | 68.9        | 94      | 33     | 2.19          | 4.66     | 0.75  | 15         | 9             | 6      | 7                      |
| 1907..... | 67.1        | 92      | 31     | 8.08          | 12.95    | 3.55  | 10         | 8             | 12     | 14                     |
| 1908..... | 65.7        | 90      | 29     | 2.09          | 4.13     | 0.95  | 11         | 10            | 9      | 8                      |
| 1909..... | 64.5        | 89      | 30     | 3.30          | 4.58     | 2.08  | 12         | 10            | 8      | 6                      |
| 1910..... | 67.3        | 97      | 32     | 2.39          | 3.97     | 1.01  | 10         | 12            | 8      | 9                      |
| 1911..... | 66.4        | 90      | 30     | 2.88          | 5.33     | 1.08  | 12         | 7             | 11     | 10                     |
| 1912..... | 65.9        | 87      | 28     | 4.47          | 6.76     | 2.68  | 13         | 8             | 9      | 9                      |
| 1913..... | 64.4        | 96      | 27     | 3.87          | 6.55     | 1.56  | 21         | 6             | 3      | 3                      |
| 1914..... | 64.0        | 99      | 24     | 0.37          | 1.64     | 0.14  | 17         | 9             | 4      | 5                      |
| 1915..... | 68.5        | 97      | 30     | 2.08          | 4.46     | 0.55  | 20         | 7             | 3      | 6                      |
| 1916..... | 65.2        | 98      | 31     | 2.84          | 5.29     | 1.29  | 16         | 7             | 7      | 6                      |
| 1917..... | 61.5        | 87      | 27     | 2.74          | 6.13     | 0.47  | 14         | 8             | 8      | 9                      |
| 1918..... | 62.2        | 90      | 29     | 3.84          | 6.00     | 2.66  | 14         | 6             | 8      | 8                      |
| 1919..... | 65.8        | 96      | 32     | 3.26          | 6.28     | 1.04  | 16         | 8             | 5      | 7                      |
| 1920..... | 66.8        | 90      | 30     | 3.87          | 8.53     | 1.67  | 17         | 8             | 7      | 8                      |
| 1921..... | 70.2        | 99      | 36     | 2.35          | 5.04     | 0.80  | 15         | 8             | 6      | 4                      |
| 1922..... | 66.7        | 95      | 27     | 2.26          | 5.22     | 0.59  | 19         | 5             | 8      | 7                      |
| 1923..... | 67.0        | 90      | 28     | 3.78          | 6.26     | 2.24  | 14         | 8             | 9      | 10                     |
| 1924..... | 62.2        | 99      | 29     | 5.42          | 8.44     | 2.47  | 13         | 8             | 8      | 7                      |
| 1925..... | 67.8        | 96      | 25     | 2.92          | 5.81     | 0.64  | 11         | 11            | 8      | 7                      |



## Climatological Data for September, 1925

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                       | Warren.....     | 289             | 34                      | 67.3                         | +2.6                      | 92      | 1     | 34     | 26    | 37                       | 5.81  | +2.04                     | 1.87                 | 0                         | 9                            | 13    | 9          | 8                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                   | Passaic.....    | 719             | 33                      | 63.4                         | +1.5                      | 88      | 11    | 25     | 26    | 44                       | 3.56  | -0.86                     | 1.49                 | 0                         | 7                            | 5     | 7          | 18                           | nw.       |                                                                                                                          |
| Culvers Lake.....                    | Sussex.....     | 848             | 24                      | .....                        | .....                     | .....   | ..... | 33     | 26    | .....                    | 3.32  | -1.22                     | 1.01                 | 0                         | 10                           | 13    | 11         | 6                            | n.        |                                                                                                                          |
| Dover.....                           | Morris.....     | 600             | 41                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.83  | -0.26                     | 1.95                 | 0                         | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Layton.....                          | Sussex.....     | 480             | 24                      | 63.4                         | +1.1                      | 89      | 11†   | 29     | 23    | 38                       | 2.76  | -1.16                     | 1.20                 | 0                         | 7                            | 8     | 8          | 14                           | n.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                          | Sussex.....     | 769             | 42                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Phillipsburg.....                    | Warren.....     | 363             | 42                      | 67.3                         | +2.1                      | 96      | 13    | 36     | 26    | 38                       | 3.74  | +0.08                     | 1.61                 | 0                         | 8                            | 12    | 11         | 7                            | .....     |                                                                                                                          |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 64.4 <sup>a</sup>            | +0.2                      | 88      | 11    | .....  | ..... | 48                       | 4.60  | +0.70                     | 1.83                 | 0                         | 8                            | 11    | 9          | 10                           | ne.       |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 65.2                         | +1.5                      | 96      | 13    | 25     | 26    | 48                       | 3.95  | -0.10                     | 1.95                 | 0                         | 8                            | 10    | 9          | 11                           | n.        |                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point†.....                   | Hudson.....     | 37              | 28                      | 68.6 <sup>a</sup>            | +2.2                      | 89      | 13    | 45     | 23    | 26                       | 1.77  | -1.76                     | 1.10                 | 0                         | 5                            | 4     | 20         | 6                            | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                         | Morris.....     | 400             | 35                      | 64.0                         | +0.4                      | 89      | 13    | 29     | 26    | 43                       | 3.65  | -0.48                     | 1.60                 | 0                         | 8                            | 18    | 1          | 11                           | ne.       |                                                                                                                          |
| Chatham.....                         | Morris.....     | 185             | 21                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.50  | -0.79                     | 1.58                 | 0                         | 8                            | 19    | 10         | 1                            | .....     |                                                                                                                          |
| Elizabeth.....                       | Union.....      | 45              | 46                      | 69.0                         | +2.3                      | 92      | 13    | 37     | 26    | 36                       | 2.63  | -1.14                     | 1.46                 | 0                         | 7                            | 13    | 14         | 3                            | sw.       |                                                                                                                          |
| Flemington.....                      | Hunterdon.....  | 140             | 39                      | 68.2                         | +1.9                      | 91      | 1     | 38     | 26    | 36                       | 4.65  | +0.75                     | 1.57                 | 0                         | 9                            | 14    | 10         | 6                            | nw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood†.....                       | Bergen.....     | 90              | 37                      | 64.8                         | +1.1                      | 84      | 11†   | 33     | 26    | 31                       | 3.44  | -0.48                     | 1.43                 | 0                         | 9                            | 7     | 15         | 8                            | nw.       |                                                                                                                          |
| Jersey City.....                     | Hudson.....     | 10              | 27                      | 68.2                         | +1.0                      | 87      | 12    | 48     | 23    | 20                       | 2.11  | -1.24                     | 1.15                 | 0                         | 7                            | 4     | 18         | 8                            | sw.       |                                                                                                                          |
| Lambertville.....                    | Hunterdon.....  | 370             | 38                      | 66.0 <sup>c</sup>            | +0.2                      | 89      | 13    | 39     | 23†   | 31                       | 4.55  | +0.66                     | 1.40                 | 0                         | 6                            | 9     | 10         | 11                           | sw.       |                                                                                                                          |
| Little Falls.....                    | Passaic.....    | 180             | 22                      | 66.4 <sup>a</sup>            | +2.3                      | 89      | 1†    | 34     | 26    | 34                       | 3.19  | -0.39                     | 1.62                 | 0                         | 6                            | 15    | 8          | 7                            | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                       |
| New Brunswick.....                   | Middlesex.....  | 110             | 72                      | 68.2                         | +2.6                      | 90      | 13    | 41     | 23†   | 34                       | 3.42  | -0.18                     | 1.30                 | 0                         | 5                            | 14    | 8          | 8                            | n.        |                                                                                                                          |
| New Milford.....                     | Bergen.....     | 9               | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.35  | .....                     | 1.40                 | 0                         | 12                           | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                        | Passaic.....    | 80              | 54                      | 67.9                         | +1.7                      | 89      | 13    | 39     | 26    | 29                       | 4.33  | +0.20                     | 2.00                 | 0                         | 9                            | 13    | 3          | 14                           | nw.       |                                                                                                                          |
| Plainfield.....                      | Union.....      | 120             | 37                      | 66.4                         | +0.8                      | 89      | 13    | 34     | 26    | 34                       | 3.77  | -0.60                     | 1.91                 | 0                         | 8                            | 9     | 15         | 6                            | sw.       | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                     |
| Ridgefield†.....                     | Bergen.....     | 80              | 7                       | 66.2                         | .....                     | 86      | 1     | 37     | 26    | 28                       | 2.12  | .....                     | 1.33                 | 0                         | 6                            | 7     | 11         | 12                           | nw.       |                                                                                                                          |
| Somerville.....                      | Somerset.....   | 70              | 42                      | 68.9                         | +2.9                      | 92      | 13    | 38     | 26    | 39                       | 4.76  | +1.11                     | 1.70                 | 0                         | 5                            | 16    | 8          | 6                            | w.        |                                                                                                                          |
| South Orange.....                    | Essex.....      | 200             | 55                      | 66.4                         | +2.3                      | 85      | 11    | 41     | 23    | 25                       | 2.43  | -0.38                     | 1.88                 | 0                         | 9                            | 8     | 13         | 9                            | sw.       |                                                                                                                          |
| Woodcliff Lake†.....                 | Bergen.....     | 100             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.45  | .....                     | 1.83                 | 0                         | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| New York, N. Y.....                  | .....           | 365             | 55                      | 67.5                         | +0.7                      | 86      | 12    | 49     | 23    | 24                       | 1.87  | -1.72                     | 1.15                 | 0                         | 8                            | 2     | 18         | 10                           | n.        | U. S. Weather Bureau.                                                                                                    |
| Means and extremes.....              |                 | .....           | .....                   | 67.1                         | +1.7                      | 92      | 13    | 29     | 26    | 43                       | 3.36  | -0.34                     | 2.00                 | 0                         | 7                            | 11    | 11         | 8                            | nw.       |                                                                                                                          |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belleplain.....                      | Cape May.....   | 30              | 31                      | 67.7 <sup>b</sup>            | +1.2                      | 90      | 11†   | 30     | 26    | 44                       | 0.74  | -2.65                     | 0.39                 | 0                         | 4                            | 17    | 4          | 9                            | se.       | Thomas J. Durell.<br>Harold K. Tryon.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                       | Cumberland..... | 90              | 44                      | 70.5                         | +2.3                      | 90      | 13    | 40     | 26    | 33                       | 0.90  | -2.41                     | 0.63                 | 0                         | 5                            | 12    | 11         | 7                            | s.        |                                                                                                                          |
| Burlington.....                      | Burlington..... | 12              | 39                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Clayton.....                         | Gloucester..... | 130             | 29                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Freehold.....                        | Monmouth.....   | 180             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | County Agr'l Agent.<br>Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.                               |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 68.2 <sup>a</sup>            | +1.9                      | 92      | 13    | 38     | 26    | 34                       | 2.71  | -1.11                     | 0.82                 | 0                         | 6                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Indian Mills†.....                   | Burlington..... | 76              | 36                      | 69.4                         | +3.3                      | 93      | 13    | 35     | 26    | 40                       | 3.41  | -0.50                     | 2.72                 | 0                         | 5                            | 7     | 17         | 6                            | s.        | James M. Armstrong.<br>R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.               |
| Lakewood.....                        | Ocean.....      | 54              | 21                      | 68.3                         | +3.7                      | 89      | 13    | 36     | 26    | 33                       | 1.86  | -0.93                     | 0.70                 | 0                         | 6                            | 13    | 9          | 8                            | sw.       |                                                                                                                          |
| Moorestown.....                      | Burlington..... | 75              | 62                      | 70.4                         | +4.4                      | 93      | 13    | 41     | 26    | 37                       | 2.58  | -1.05                     | 1.27                 | 0                         | 7                            | 11    | 16         | 3                            | sw.       |                                                                                                                          |
| Northfield†.....                     | Atlantic.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.87  | -0.63                     | 0.84                 | 0                         | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville†.....                  | Atlantic.....   | 26              | 27                      | 68.3                         | .....                     | 89      | 10†   | 36     | 26    | 36                       | 1.51  | -1.61                     | 0.93                 | 0                         | 7                            | 14    | 11         | 5                            | ne.       |                                                                                                                          |
| Runyon†.....                         | Middlesex.....  | 18              | .....                   | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.91  | .....                     | 1.28                 | 0                         | 6                            | 13    | 15         | 2                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin.<br>H. C. Himes<br>U. S. Weather Bureau.     |
| Trenton.....                         | Mercer.....     | 190             | 53                      | 68.6                         | +1.7                      | 91      | 13    | 43     | 30    | 27                       | 3.91  | +0.32                     | 1.60                 | 0                         | 9                            | 4     | 6          | 10                           | n.        |                                                                                                                          |
| Tuckerton.....                       | Ocean.....      | 23              | 32                      | 69.7                         | +3.5                      | 87      | 1†    | 40     | 26    | 37                       | 2.32  | -0.74                     | 0.65                 | 0                         | 8                            | 19    | 11         | 0                            | se.       |                                                                                                                          |
| Vineland.....                        | Cumberland..... | 109             | 56                      | 73.1 <sup>b</sup>            | +6.1                      | 91      | 13    | .....  | ..... | .....                    | 3.1   | -3.05                     | 0.40                 | 0                         | 4                            | 9     | 13         | 8                            | s.        |                                                                                                                          |
| Philadelphia, Pa.....                | .....           | 117             | 55                      | 71.2                         | +3.2                      | 91      | 13    | 48     | 23    | 23                       | 1.89  | -1.49                     | 0.86                 | 0                         | 7                            | 5     | 16         | 9                            | n.        |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 69.4                         | +3.1                      | 93      | 13    | 30     | 26    | 44                       | 2.11  | -1.31                     | 2.72                 | 0                         | 6                            | 12    | 12         | 6                            | s.        |                                                                                                                          |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                     | Monmouth.....   | 22              | 36                      | 68.9 <sup>a</sup>            | +2.1                      | 83      | 2     | 49     | 22    | 24                       | 1.55  | -1.44                     | 0.95                 | 0                         | 6                            | 17    | 12         | 1                            | nc.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                   | Atlantic.....   | 16              | 51                      | 70.0                         | +3.2                      | 88      | 21    | 52     | 26    | 25                       | 1.05  | -2.00                     | 0.43                 | 0                         | 11                           | 10    | 15         | 5                            | s.        |                                                                                                                          |
| Cape May City.....                   | Cape May.....   | 17              | 41                      | 71.0                         | +2.0                      | 88      | 21    | 47     | 26    | 25                       | 2.12  | -0.88                     | 1.47                 | 0                         | 7                            | 13    | 11         | 6                            | s.        |                                                                                                                          |
| Long Branch.....                     | Monmouth.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Sandy Hook.....                      | Monmouth.....   | 22              | 27                      | 68.5                         | +1.4                      | 86      | 1     | 51     | 23    | 20                       | 2.10  | -1.40                     | 1.25                 | 0                         | 7                            | 6     | 16         | 8                            | s.        |                                                                                                                          |
| Means and extremes.....              |                 | .....           | .....                   | 69.6                         | +2.2                      | 88      | 21    | 47     | 26    | 25                       | 1.70  | -1.43                     | 1.47                 | 0                         | 8                            | 12    | 13         | 5                            | s.        |                                                                                                                          |
| For the State.....                   |                 | .....           | .....                   | 67.8                         | +2.1                      | 96      | 13    | 25     | 26    | 43                       | 2.92  | -0.71                     | 2.72                 | 0                         | 7                            | 11    | 11         | 8                            | nw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere.



## Daily Precipitation for September, 1925

| Stations                            | Drainage Basin  | Day of month |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      | Total |
|-------------------------------------|-----------------|--------------|---|------|-----|-----|-----|------|-----|-----|----|----|-----|-----|------|------|------|------|----|----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|------|-------|
|                                     |                 | 1            | 2 | 3    | 4   | 5   | 6   | 7    | 8   | 9   | 10 | 11 | 12  | 13  | 14   | 15   | 16   | 17   | 18 | 19 | 20  | 21  | 22 | 23  | 24  | 25  | 26 | 27  | 28  | 29  | 30  | 31   |       |
| The Highlands and Kittatinny Valley |                 |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Belvidere.....                      | Delaware.....   |              |   | .02  |     |     | .06 | 1.04 |     |     |    | T. |     | .12 | 1.47 |      | 1.19 | 1.87 |    |    |     | .02 |    |     |     |     |    |     |     | .02 |     |      | 5.81  |
| Charlotteburg.....                  | Passaic.....    |              |   |      |     |     |     | 1.49 |     |     |    |    |     | .59 |      | 1.10 | .27  |      |    |    | .06 |     |    |     |     |     |    | .05 |     | .01 |     | 3.56 |       |
| Culvers Lake.....                   | Delaware.....   |              |   | .05  | .02 |     | .06 | .95  |     |     |    |    |     | .35 | 1.01 | .01  | .84  |      |    |    | .02 |     |    |     |     |     |    |     |     |     |     | 3.32 |       |
| Dover.....                          | Passaic.....    |              |   | .02  |     |     |     | 1.28 |     |     |    |    | .04 |     | .50  | *    | 1.95 |      |    |    | .02 |     |    |     |     |     |    |     | .02 |     |     | 3.83 |       |
| Layton.....                         | Delaware.....   |              |   | T.   |     |     | .09 | 1.11 |     |     |    |    |     | .54 | .72  | .03  | .23  |      |    |    |     |     |    |     |     |     |    |     | .04 |     |     | 2.76 |       |
| Newton.....                         | Delaware.....   |              |   |      |     |     |     |      |     |     |    |    | .12 | .75 | .03  | .45  | .63  |      |    |    | T.  |     |    |     |     |     |    |     | T.  |     |     | 3.74 |       |
| Phillipsburg.....                   | do.....         |              |   | .15  | T   |     | .47 | 1.14 |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     | .08 |     |     | 4.60 |       |
| Sussex.....                         | Hudson.....     |              |   | .05  | .07 |     |     | 1.17 |     |     |    |    |     | .19 | 1.83 |      | 1.20 | .01  |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| The Red Sandstone Plain.            |                 |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Bergen Point**.....                 | Coast.....      |              |   |      |     |     | .43 | .67  |     |     |    |    |     | T.  | .07  | .16  | .44  | T.   |    |    | T.  |     |    |     |     |     |    |     | T   |     |     | 1.77 |       |
| Boonton   .....                     | Passaic.....    |              |   | T.   |     |     |     |      | .11 |     |    |    | .05 | .39 |      | 1.13 | .27  |      |    |    | .09 |     |    |     |     |     |    |     | .01 |     |     | 3.65 |       |
| Chatham   .....                     | do.....         |              |   |      |     |     | .02 | 1.58 | .04 |     |    |    |     | .29 |      | 1.07 | .47  |      |    |    | .01 |     |    |     |     |     |    |     | .02 |     |     | 3.50 |       |
| Elizabeth.....                      | Coast.....      |              |   |      | T.  |     |     | 1.46 |     |     |    |    |     | .08 | .09  |      | .90  | .08  |    |    |     |     |    |     |     |     |    |     | .02 |     |     | 2.63 |       |
| Flemington.....                     | Raritan.....    |              |   | .09  | .21 |     | .02 | 1.35 |     |     |    |    |     | .33 | .65  |      | 1.15 | .65  |    |    |     |     |    |     |     |     |    |     | T.  |     |     | 4.65 |       |
| Highwood.....                       | Hackensack..... |              |   | T.   | .04 |     | .05 | 1.38 |     |     |    |    |     | .08 | .06  | T.   | .80  | .95  |    |    | .03 |     |    |     |     |     |    |     | .05 |     |     | 3.44 |       |
| Jersey City.....                    | Coast.....      |              |   |      |     |     | .10 | 1.05 |     |     |    |    |     | .09 | .03  | .61  | .20  |      |    |    |     |     |    |     |     |     |    |     | .03 |     |     | 2.11 |       |
| Lambertville.....                   | Delaware.....   |              |   | .67  |     |     | .04 | 1.01 |     |     |    |    |     | .49 |      | 1.40 | .94  |      |    |    |     |     |    |     |     |     |    |     | .03 |     |     | 4.55 |       |
| Little Falls.    .....              | Passaic.....    |              |   | T.   | T.  |     |     | 1.62 | T   |     |    | T  | T.  | .29 |      | .90  | .25  |      |    |    | .10 |     |    |     |     |     |    |     |     |     |     | 3.19 |       |
| New Brunswick.....                  | Raritan.....    |              |   | .02  |     |     | T.  | 1.30 |     |     |    |    |     | .16 |      | .85  | 1.09 |      |    |    |     |     |    |     |     |     |    |     |     |     |     | 3.42 |       |
| New Milford.**.....                 | Hackensack..... |              |   | .01  | .06 |     | .27 | 1.13 |     |     |    |    | .04 | .08 | .11  | .14  | .32  | .12  |    |    |     |     |    |     |     |     |    | .03 | .04 |     |     | 2.35 |       |
| Paterson.....                       | Passaic.....    |              |   | T.   | .03 |     |     | 2.00 |     |     |    |    | T.  |     | .27  | .04  | .85  | 1.00 |    |    | .10 |     |    |     |     |     |    |     | .04 |     |     | 4.83 |       |
| Plainfield.....                     | Raritan.....    |              |   | T.   | .02 |     | .01 | 1.90 |     |     |    |    |     | .24 | .01  | 1.38 | .20  |      |    |    | T   |     |    |     |     |     |    |     | .01 |     |     | 3.77 |       |
| Ridgefield.....                     | Hackensack..... |              |   | T    | T.  |     |     | 1.33 |     |     |    |    | T.  | .08 | T.   | .52  | .16  |      |    |    |     |     |    |     |     |     |    |     | .03 |     |     | 2.12 |       |
| Somerville.....                     | Raritan.....    |              |   |      |     |     | T.  | 1.70 |     |     |    |    | .06 | .47 |      | 1.49 | 1.04 |      |    |    |     |     |    |     |     |     |    |     |     |     |     | 4.76 |       |
| South Orange.....                   | Rahway.....     |              |   | T.   |     |     | *   | 1.88 |     |     |    |    | .10 | .07 | .19  | .80  | .34  |      |    |    | .03 |     |    |     |     |     |    | T.  | .02 |     |     | 3.43 |       |
| Woodcliff Lake**.....               | Hackensack..... |              |   |      | .21 |     | .24 | 1.59 |     |     |    |    | .10 |     | .15  | 1.05 | .06  |      |    |    |     |     |    |     |     |     |    | .05 |     |     |     | 3.45 |       |
| New York, N. Y***.....              | Coast.....      |              |   | T.   | T.  |     | .43 | .72  |     |     |    |    | T.  | .07 | .18  | .43  | .01  |      |    |    |     |     |    |     |     |     |    | .01 | .02 |     |     | 1.87 |       |
| The Southern Interior.              |                 |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Belleplain.....                     | Tuckahoe.....   | T.           |   |      |     |     | .10 |      | T.  |     |    |    |     | .05 |      | .39  |      |      |    |    |     |     |    |     |     |     |    |     | .20 |     |     | 0.74 |       |
| Bridgeton.....                      | Coast.....      | T.           |   | .01  |     |     | .09 |      | T.  |     |    |    | T.  | .63 |      | .02  |      |      | T  |    | T   |     |    | T.  | T   |     |    |     | .15 |     |     | 0.90 |       |
| Burlington.....                     | Delaware.....   |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Clayton.....                        | Delaware.....   |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Freehold   .....                    | Coast.....      |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Hammononton.....                    | Mullica.....    |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Hightstown.....                     | Raritan.....    |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Imlaystown.....                     | Delaware.....   |              |   | .06  |     |     |     | .82  |     |     |    |    |     | .37 |      | .77  | .64  |      |    |    |     |     |    |     |     |     |    |     | .05 |     |     | 2.71 |       |
| Indian Mills.....                   | Mullica.....    |              |   | 2.72 |     |     | T.  | .20  |     |     |    |    |     | .40 |      | .03  |      |      |    |    |     |     |    | T   |     |     |    |     | .06 |     |     | 3.41 |       |
| Lakewood.....                       | Mctedeconk..... |              |   | .05  |     |     | T.  | .70  |     |     |    |    |     | .25 |      | .45  | .38  |      |    |    |     |     |    |     |     |     |    |     | .03 |     |     | 1.86 |       |
| Moorestown.....                     | Delaware.....   |              |   | .22  |     |     |     | .46  |     |     |    |    | .01 |     | .37  | 1.27 | .17  |      |    |    |     |     |    |     |     |     |    |     | .08 |     |     | 2.58 |       |
| Northfield.....                     | Coast.....      |              |   | .05  | .06 |     |     | .10  |     |     |    |    |     | .36 |      | .84  | .08  | .08  |    |    |     |     |    |     | T   | .06 |    |     | .24 |     |     | 1.87 |       |
| Pleasantville   .....               | Coast.....      |              |   |      |     |     |     | .08  |     |     |    |    |     | .24 |      | .03  | .93  |      | T. |    |     |     |    |     |     |     |    | .07 |     |     | .16 | 1.51 |       |
| Runyon.....                         | Coast.....      |              |   | .06  |     |     |     | 1.28 |     |     |    |    | .08 | .15 |      | .75  | .59  |      |    |    |     |     |    |     |     |     |    |     |     |     |     | 2.91 |       |
| Trenton***.....                     | Delaware.....   |              |   | .46  | T.  |     | .24 | .76  |     |     | T  |    | .39 | .13 | .39  | 1.37 |      | T.   |    | T. |     |     |    |     |     |     |    |     | .04 |     |     | 3.91 |       |
| Tuckerton.....                      | Coast.....      |              |   | .17  | .65 |     | .04 | .23  |     |     |    |    |     | .54 |      | .24  | .20  |      |    |    |     |     |    |     |     | .07 |    |     | .22 |     |     | 2.32 |       |
| Vineland.....                       | Maurice.....    |              |   | .08  |     |     |     |      |     |     |    |    |     | .04 |      | .40  |      |      |    |    |     |     |    |     |     |     |    |     | .12 |     |     | 0.64 |       |
| Phila., Pa***.....                  | Delaware.....   |              |   |      | .86 |     | .17 | .23  |     |     |    | T  | .05 | .04 | .43  | T.   |      | T    |    | T. |     |     | T. |     | T   |     |    |     | .11 |     |     | 1.89 |       |
| The Sea Coast.                      |                 |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |
| Asbury Park.....                    | Coast.....      |              |   |      | T.  | T.  |     | *    | .95 |     |    |    |     | .17 |      | .31  | .09  |      |    |    |     |     |    |     |     |     |    |     | .03 |     |     | 1.55 |       |
| Atlantic City***.....               | do.....         |              |   | .01  |     | .01 |     | T.   | .07 |     |    |    |     | .20 | .01  | .32  | .12  | .02  |    |    | T.  |     |    | .02 | .05 |     |    |     | .22 |     |     | 1.05 |       |
| Cape May City.....                  | do.....         |              |   | T.   | T   | .31 | T.  |      | .12 | .06 |    |    |     |     | T.   | 1.47 |      |      |    |    | T   |     |    | .04 | .04 |     |    |     | .08 |     |     | 2.12 |       |
| Long Branch**.....                  | do.....         |              |   |      |     |     |     |      |     |     |    |    |     |     |      |      |      |      |    |    |     |     |    |     |     |     |    |     |     |     |     | 2.10 |       |
| Sandy Hook***.....                  | do.....         |              |   |      | .03 | T.  |     | .27  | .98 |     |    |    |     | T.  | .05  | .15  | .38  | .24  |    |    |     |     |    |     |     |     |    |     |     |     |     |      |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

[illegible]



## Daily Temperatures for September, 1925

| Stations                             | 1       | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | Mean              |      |
|--------------------------------------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|
| The Highlands and Kittatinny Valley. |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |
| Belvidere.....                       | Maximum | 92   | 86   | 78   | 85   | 91   | 79   | 74   | 84   | 80   | 85   | 87   | 88   | 90   | 84   | 76   | 77   | 75   | 78   | 85   | 82   | 84   | 68   | 69   | 70   | 73   | 71   | 75   | 82   | 74   | 67   | 79.6              |      |
|                                      | Minimum | 55   | 49   | 61   | 64   | 55   | 63   | 63   | 60   | 54   | 63   | 66   | 69   | 68   | 65   | 57   | 60   | 55   | 50   | 55   | 49   | 60   | 45   | 36   | 50   | 46   | 34   | 44   | 59   | 49   | 46   | 55.0              |      |
| Charlotteburg.....                   | Maximum | 86   | 81   | 78   | 82   | 80   | 85   | 70   | 78   | 77   | 82   | 88   | 84   | 85   | 79   | 77   | 68   | 67   | 77   | 72   | 79   | 77   | 74   | 60   | 68   | 67   | 65   | 79   | 76   | 70   | 64   | 75.8              |      |
|                                      | Minimum | 42   | 51   | 57   | 60   | 53   | 59   | 58   | 57   | 47   | 60   | 63   | 68   | 69   | 65   | 53   | 57   | 52   | 40   | .... | 40   | 64   | 38   | 29   | 48   | 42   | 25   | 38   | 58   | 47   | 41   | 51.1 <sup>a</sup> |      |
| Dover.....                           | Maximum | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              |      |
|                                      | Minimum | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              |      |
| Layton.....                          | Maximum | 84   | 81   | 71   | 82   | 84   | 74   | 68   | 80   | 74   | 76   | 89   | 89   | 83   | 76   | 65   | 70   | 69   | 79   | 76   | 78   | 73   | 62   | 62   | 69   | 62   | 68   | 72   | 76   | 70   | 61   | 74.1              |      |
|                                      | Minimum | 47   | 44   | 60   | 64   | 52   | 61   | 62   | 58   | 52   | 64   | 65   | 73   | 65   | 61   | 53   | 58   | 51   | 48   | 57   | 44   | 57   | 40   | 29   | 52   | 44   | 30   | 43   | 59   | 45   | 40   | 52.6              |      |
| Newton.....                          | Maximum | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              |      |
|                                      | Minimum | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              |      |
| Phillipsburg.....                    | Maximum | 89   | 89   | 75   | 85   | 83   | 76   | 74   | 83   | 77   | 83   | 87   | 86   | 96   | 81   | 72   | 77   | 74   | 78   | 82   | 83   | 81   | 63   | 63   | 71   | 68   | 71   | 73   | 80   | 71   | 62   | 77.8              |      |
|                                      | Minimum | 50   | 51   | 63   | 64   | 59   | 65   | 64   | 61   | 60   | 65   | 67   | 69   | 69   | 65   | 60   | 62   | 55   | 51   | 58   | .... | 58   | 46   | 39   | 58   | 45   | 36   | 46   | 60   | 51   | 41   | 56.8 <sup>a</sup> |      |
| Sussex.....                          | Maximum | 87   | 81   | 76   | 81   | 83   | 82   | 71   | 78   | 75   | 80   | 88   | 83   | 85   | 84   | 72   | 67   | 69   | 75   | 76   | 78   | 74   | 63   | 64   | 68   | 64   | .... | 72   | 75   | 68   | 63   | 75.2 <sup>a</sup> |      |
|                                      | Minimum | 39   | 48   | 60   | 65   | 52   | 60   | 61   | 57   | 52   | 64   | 66   | 72   | 68   | 64   | 55   | 57   | 53   | 48   | 56   | 45   | 63   | 43   | 32   | 50   | 45   | .... | 30   | 60   | 46   | 43   | 53.6 <sup>a</sup> |      |
| The Red Sandstone Plain.             |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |
| Bergen Point.....                    | Maximum | 87   | 84   | 77   | 82   | 85   | 75   | .... | 80   | 74   | 88   | 88   | 88   | 89   | 81   | 72   | 72   | 70   | .... | 76   | 83   | 83   | 65   | 65   | 65   | 70   | 66   | 64   | 82   | 75   | 67   | 76.9 <sup>a</sup> |      |
|                                      | Minimum | 66   | 59   | 67   | 65   | 65   | 65   | 63   | 62   | 58   | 66   | 68   | 70   | 68   | 65   | 60   | 63   | 60   | 58   | 66   | 57   | 65   | 56   | 45   | 56   | 50   | 52   | 50   | 56   | 56   | 48   | 60.2              |      |
| Boonton§§.....                       | Maximum | 86   | 83   | 76   | 84   | 87   | 78   | 69   | 81   | 76   | 82   | 88   | 85   | 89   | 81   | 68   | 73   | 70   | 77   | 78   | 78   | 80   | 63   | 62   | 69   | 65   | 68   | 74   | 79   | 71   | 60   | 76.0              |      |
|                                      | Minimum | 55   | 55   | 59   | 62   | 55   | 59   | 61   | 60   | 52   | 56   | 66   | 66   | 68   | 67   | 56   | 58   | 54   | 45   | 48   | 46   | 56   | 42   | 33   | 39   | 46   | 29   | 31   | 47   | 45   | 48   | 52.1              |      |
| Elizabeth.....                       | Maximum | 91   | 86   | 83   | 86   | 89   | 83   | 77   | 84   | 80   | 89   | 90   | 90   | 92   | 89   | 85   | 74   | 74   | 78   | 83   | 83   | 85   | 77   | 65   | 73   | 70   | 70   | 79   | 84   | 76   | 66   | 81.0              |      |
|                                      | Minimum | 60   | 56   | 62   | 66   | 59   | 60   | 63   | 60   | 56   | 65   | 70   | 68   | 69   | 68   | 61   | 60   | 59   | 50   | 59   | 50   | 67   | 44   | 38   | 53   | 46   | 37   | 43   | 62   | 51   | 48   | 57.0              |      |
| Flemington.....                      | Maximum | 91   | 84   | 78   | 83   | 86   | 80   | 76   | 81   | 76   | 85   | 88   | 88   | 90   | 83   | 75   | 75   | 74   | 79   | 80   | 81   | 79   | 68   | 62   | 72   | 69   | 74   | 75   | 79   | 73   | 67   | 78.4              |      |
|                                      | Minimum | 60   | 56   | 64   | 67   | 60   | 65   | 65   | 63   | 57   | 66   | 69   | 70   | 70   | 69   | 60   | 62   | 58   | 51   | 60   | 50   | 68   | 45   | 39   | 53   | 49   | 38   | 43   | 63   | 51   | 48   | 58.0              |      |
| Highwood.....                        | Maximum | 83   | 81   | 74   | 79   | 81   | 74   | 69   | 78   | 71   | 83   | 84   | 81   | 84   | 79   | 70   | 67   | 67   | 75   | 74   | 76   | 77   | 66   | 60   | 69   | 63   | 64   | 70   | 77   | 69   | 60   | 73.5              |      |
|                                      | Minimum | 55   | .... | 61   | 67   | 57   | 61   | 62   | 58   | 55   | 65   | 73   | 68   | 70   | 68   | 61   | 59   | 57   | 50   | 56   | 49   | 65   | 44   | 35   | 53   | 47   | 33   | 42   | 62   | 50   | 44   | 56.1 <sup>a</sup> |      |
| Jersey City.....                     | Maximum | 85   | 83   | 74   | 80   | 83   | 79   | 75   | 80   | 73   | 85   | 85   | 87   | 86   | 81   | 69   | 72   | 70   | 77   | 78   | 78   | 81   | 63   | 63   | 70   | 65   | 63   | 72   | 80   | 70   | 60   | 75.6              |      |
|                                      | Minimum | 66   | 64   | 67   | 68   | 65   | 63   | 62   | 61   | 60   | 67   | 70   | 70   | 71   | 68   | 62   | 61   | 61   | 57   | 64   | 60   | 63   | 50   | 48   | 56   | 49   | 50   | 55   | 62   | 58   | 49   | 60.9              |      |
| Lambertville.....                    | Maximum | 87   | 82   | 75   | 82   | .... | 76   | 78   | .... | .... | 83   | 86   | 87   | 89   | 81   | 75   | 76   | 69   | 75   | 80   | 79   | 79   | 63   | 63   | 73   | 66   | 70   | 75   | .... | 71   | 59   | 76.1 <sup>b</sup> |      |
|                                      | Minimum | 59   | 57   | 61   | 65   | 63   | 63   | 56   | .... | .... | 65   | 70   | 69   | 69   | 63   | 59   | 60   | 54   | 53   | 58   | 49   | 56   | 42   | 39   | 51   | 47   | 39   | 46   | 61   | 51   | 41   | 55.9 <sup>b</sup> |      |
| Little Falls§§.....                  | Maximum | 89   | 85   | 76   | 87   | 80   | 80   | 75   | 82   | 77   | 86   | 89   | 85   | 89   | 83   | 75   | 68   | 71   | 71   | 74   | 78   | 81   | 80   | 64   | 61   | 70   | 67   | .... | 76   | 83   | .... | 77.5 <sup>b</sup> |      |
|                                      | Minimum | 55   | 56   | 60   | 65   | 57   | 61   | 62   | 58   | 54   | 59   | 70   | 67   | 68   | 68   | 59   | 59   | 56   | 47   | 58   | 48   | 64   | 44   | 36   | 45   | 46   | 34   | 44   | 62   | 48   | 45   | 55.2              |      |
| New Brunswick.....                   | Maximum | 87   | 85   | 77   | 83   | 84   | 76   | 80   | 76   | 85   | 88   | 89   | 90   | 83   | 77   | 75   | 70   | 78   | 79   | 80   | 82   | 72   | 63   | 71   | 69   | 66   | 76   | 80   | 72   | 67   | 78.1 |                   |      |
|                                      | Minimum | 61   | 55   | 64   | 67   | 59   | 65   | 64   | 62   | 57   | 66   | 70   | 68   | 69   | 69   | 61   | 62   | 59   | 51   | 62   | 51   | 68   | 47   | 41   | 53   | 49   | 41   | 42   | 64   | 52   | 48   | 58.2              |      |
| Paterson.....                        | Maximum | 88   | 85   | 80   | 83   | 85   | 82   | 68   | 81   | 77   | 87   | 88   | 85   | 89   | 82   | 75   | 68   | 70   | 77   | 78   | 80   | 82   | 72   | 63   | 71   | 69   | 66   | 74   | 80   | 71   | 66   | 77.4              |      |
|                                      | Minimum | 60   | 59   | 65   | 67   | 62   | 66   | 63   | 60   | 56   | 66   | 72   | 70   | 70   | 68   | 62   | 60   | 58   | 52   | 61   | 51   | 67   | 48   | 41   | 53   | 49   | 39   | 45   | 63   | 52   | 47   | 58.4              |      |
| Plainfield.....                      | Maximum | 87   | 84   | 75   | 80   | 84   | 80   | 80   | 82   | 75   | 85   | 86   | 87   | 89   | 82   | 75   | 68   | 70   | 77   | 78   | 80   | 82   | 72   | 63   | 71   | 69   | 66   | 74   | 80   | 71   | 66   | 77.1              |      |
|                                      | Minimum | 59   | 52   | 60   | 65   | 60   | 59   | 62   | 60   | 55   | 65   | 71   | 67   | 69   | 66   | 60   | 56   | 49   | 57   | 48   | 64   | 44   | 36   | 53   | 45   | 34   | 41   | 61   | 48   | 47   | .... | 55.8              |      |
| Ridgefield.....                      | Maximum | 86   | 82   | 74   | 83   | 85   | 79   | 71   | 80   | 73   | 85   | 85   | 85   | 85   | 81   | 69   | 70   | 70   | 78   | 77   | 77   | 78   | 62   | 62   | 70   | 68   | 63   | 73   | 80   | 71   | 63   | 75.5              |      |
|                                      | Minimum | 59   | 56   | 63   | 67   | 60   | 64   | 64   | 60   | 56   | 67   | 72   | 71   | 70   | 64   | 61   | 60   | 56   | 51   | 57   | 52   | 55   | 45   | 38   | 55   | 45   | 37   | 45   | 61   | 52   | 43   | 56.9              |      |
| Somerville.....                      | Maximum | 91   | 88   | 82   | 87   | 90   | 82   | 78   | 85   | 77   | 87   | 89   | 90   | 92   | 87   | 79   | 76   | 80   | 84   | 83   | 85   | 74   | 64   | 73   | 69   | 70   | 80   | 84   | 73   | 67   | .... | 80.8              |      |
|                                      | Minimum | 56   | 51   | 62   | 66   | 59   | 63   | 63   | 62   | 57   | 67   | 72   | 69   | 69   | 67   | 60   | 62   | 57   | 50   | 59   | 49   | 67   | 45   | 39   | 54   | 50   | 38   | 41   | 59   | 48   | 48   | 57.0              |      |
| South Orange.....                    | Maximum | 82   | 80   | 75   | 82   | 83   | 78   | 73   | 77   | 73   | 83   | 85   | 84   | 83   | 78   | 73   | 69   | 74   | 77   | 78   | 79   | 63   | 62   | 69   | 64   | 63   | 72   | 78   | 70   | 58   | .... | 74.8              |      |
|                                      | Minimum | 64   | 62   | 64   | 67   | 64   | 62   | 63   | 62   | 57   | 67   | 60   | 67   | 70   | 65   | 60   | 60   | 59   | 54   | 54   | 42   | 41   | 44   | 45   | 42   | 47   | 60   | 53   | 44   | .... | .... | 57.9              |      |
| New York, N. Y.....                  | Maximum | 84   | 81   | 73   | 80   | 82   | 76   | 72   | 78   | 72   | 83   | 84   | 86   | 84   | 80   | 68   | 71   | 68   | 76   | 76   | 75   | 79   | 62   | 62   | 69   | 64   | 61   | 70   | 78   | 68   | 59   | ....              | 74.0 |
|                                      | Minimum | 67   | 64   | 67   | 69   | 65   | 63   | 62   | 62   | 60   | 67   | 71   | 71   | 71   | 68   | 61   | 61   | 61   | 61   | 58   | 65   | 62   | 55   | 50   | 49   | 56   | 49   | 50   | 56   | 62   | 58   | 49                | 61.0 |
| The Southern Interior.               |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |      |
| Belleplain.....                      | Maximum | 89   | 85   | 82   | 85   | 89   | 76   | 87   | 86   | 81   | 87   | 90   | 88   | 90   | 87   | 79   | 86   | .... | 84   | 87   |      |      |      |      |      |      |      |      |      |      |      |                   |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXX.

OCTOBER, 1925.

No. 10

### GENERAL SUMMARY.

The weather of October, 1925, in New Jersey, will go into the records as being the stormiest since the systematic compilation of data. The only approximately normal element was the amount of precipitation, and that was somewhat in excess. Sunshine was deficient, cloudiness and wind were excessive, the mean monthly temperature for the entire State was the lowest on record, and in many localities new low temperature extremes occurred. To produce a sensational climax to what was already a notable month, snow fell practically throughout the State on the 30th from morning to early night, amounting from a trace up to five inches. The 31st dawned showing trees and shrubs in full foliage draped under a spectacular snow covering. Snowshovels and children's sleds were in use. This snowstorm probably exceeds all October records back to that of 1859. In northwestern counties there was sufficient snow on the 22d to arouse comment.

On the 10th a severe wind storm caused considerable damage especially over the northern half of the State. Insecure structures were wrecked, plate glass windows broken, and branches broken from shrubbery and trees. A live electric wire blown down by the wind caused one death in South Orange.

On the 25th a second severe wind storm caused general damage over the southern half and coast sections. This accompanied a typical cyclonic low pressure area, and many buildings of apparently substantial construction were seriously damaged or even totally wrecked. The wind velocity during the daylight hours was above 50 and into the upper 60's in miles per hour for a long period, and farm buildings, shore cottages and wires were hard hit. A child was killed in Little Falls when the wind toppled a brick wall upon her.

Storm warnings were displayed along the coast on the 9th, 10th, 14th, 16th, 19th, 24th, 25th, 28th, and 30th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 34 stations, was 49.1°, which was 5.9° below normal. The highest temperature was 84° at Tuckerton on the 17th, and the lowest, 12°, at Layton on the 31st. The greatest daily range of temperature was 41° at Charlotteburg on the 1st. The highest monthly mean temperature was 53.8° at Cape May City, and the lowest 44.3° at Layton.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +0.4°; Red Sandstone Plain, +0.3°; Southern Interior, +1.2°; Sea Coast, +1.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 39 stations, was 4.59 inches, which was 0.90 inch above normal. The average total snowfall at eighteen selected stations was 1.7 inches, which was 1.7 inches above normal. The greatest monthly precipitation was 5.78 inches, at South Orange, and the least, 3.38 inches at Northfield. The greatest amount of precipitation in any 24 consecutive hours 2.10 inches at Elizabeth on the 24-25th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 3 more than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, +0.86 inch; Red Sandstone Plain, -2.65 inches; Southern Interior, -5.86 inches; Sea Coast, -7.31 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 14 miles per hour, which was 2 miles above normal. The highest velocity, sustained for 5 consecutive minutes, was 68 miles per hour from the northwest at Sandy Hook on the 10th, and 68 miles per hour from the south at Atlantic City on the 25th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 9, which was 6 less than normal; partly cloudy, 9, or 1 more than normal; cloudy, 13, or 5 more than normal. The per cent of possible sunshine was 45, which was 18 per cent below normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.00 inches, which was 0.07 below normal. The highest reading was 30.51 inches at Ridgefield on the 31st, and the lowest, 29.03 inches at Sandy Hook on the 25th.

The mean stage of the Delaware River at Phillipsburg was 1.7 feet, and the highest stage, 5.5 feet, on the 27th. At Trenton the mean stage was 0.9 foot, which was 0.5 foot below normal. The highest stage, 3.1 feet, occurred on the 28th.

Thunderstorms occurred on the 4th, 5th, 16th, 17th and 28th. Dense fog was observed on the 25th. Solar halos were observed on the 3d, 4th, 6th, 11th, 16th, 18th, 26th, 27th and 28th and lunar halos on the 27th. An aurora occurred on the 13th. Killing frosts occurred in extreme northern counties in September. They overspread north-central and northeastern districts on October 1st, the entire Delaware Valley on the 11th, the south-central interior on the 20th, and the sea coast at the close of the month.

### COMPARATIVE DATA FOR OCTOBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 54.2        | 82      | 29     | 4.20          | 5.85     | 2.91  | .....      | .....         | .....  | .....                  |
| 1886..... | 55.6        | 88      | 21     | 3.22          | 8.16     | 2.02  | .....      | .....         | .....  | .....                  |
| 1887..... | 52.3        | 89      | 21     | 2.61          | 5.00     | 1.58  | .....      | .....         | .....  | .....                  |
| 1888..... | 49.2        | 78      | 25     | 4.73          | 7.00     | 2.97  | .....      | .....         | .....  | .....                  |
| 1889..... | 50.8        | 82      | 23     | 3.80          | 5.03     | 2.42  | .....      | .....         | .....  | .....                  |
| 1890..... | 53.9        | 81      | 24     | 6.33          | 10.18    | 3.40  | .....      | .....         | .....  | .....                  |
| 1891..... | 52.8        | 92      | 18     | 3.44          | 5.57     | 1.88  | 11         | 11            | 9      | 3                      |
| 1892..... | 53.6        | 85      | 21     | 0.52          | 1.09     | 0.04  | 14         | 12            | 5      | 7                      |
| 1893..... | 55.2        | 85      | 17     | 4.22          | 6.59     | 1.74  | 15         | 7             | 9      | 4                      |
| 1894..... | 55.3        | 87      | 27     | 5.67          | 8.23     | 3.90  | 12         | 7             | 12     | 10                     |
| 1895..... | 49.9        | 83      | 18     | 3.60          | 5.53     | 1.62  | 19         | 7             | 9      | 5                      |
| 1896..... | 51.5        | 82      | 21     | 2.24          | 4.58     | 1.72  | 11         | 8             | 12     | 8                      |
| 1897..... | 55.8        | 95      | 22     | 2.43          | 6.49     | 0.87  | 14         | 8             | 9      | 7                      |
| 1898..... | 56.5        | 88      | 24     | 5.76          | 8.42     | 3.92  | 13         | 9             | 9      | 10                     |
| 1899..... | 56.6        | 86      | 18     | 2.72          | 4.65     | 1.07  | 13         | 10            | 8      | 6                      |
| 1900..... | 59.9        | 92      | 19     | 3.70          | 6.59     | 1.47  | 10         | 8             | 13     | 10                     |
| 1901..... | 54.4        | 82      | 21     | 1.93          | 4.45     | 0.87  | 17         | 8             | 6      | 4                      |
| 1902..... | 56.0        | 80      | 20     | 6.39          | 9.35     | 3.82  | 15         | 7             | 9      | 8                      |
| 1903..... | 55.9        | 86      | 24     | 8.92          | 16.19    | 4.17  | 13         | 9             | 9      | 8                      |
| 1904..... | 51.9        | 89      | 15     | 3.78          | 7.01     | 1.50  | 20         | 6             | 5      | 5                      |
| 1905..... | 55.5        | 90      | 17     | 2.71          | 4.83     | 0.75  | 18         | 7             | 6      | 7                      |
| 1906..... | 55.0        | 80      | 11     | 4.46          | 7.14     | 2.66  | 8          | 14            | 11     | 7                      |
| 1907..... | 50.6        | 80      | 18     | 4.46          | 7.18     | 2.70  | 22         | 5             | 4      | 7                      |
| 1908..... | 57.3        | 92      | 19     | 2.71          | 5.14     | 1.30  | 15         | 5             | 11     | 8                      |
| 1909..... | 51.2        | 84      | 18     | 1.18          | 1.82     | 0.40  | 17         | 7             | 7      | 8                      |
| 1910..... | 57.2        | 90      | 18     | 3.15          | 5.55     | 1.55  | 15         | 8             | 8      | 8                      |
| 1911..... | 57.0        | 88      | 25     | 5.49          | 8.23     | 2.61  | 10         | 9             | 12     | 12                     |
| 1912..... | 57.8        | 83      | 25     | 7.79          | 13.84    | 2.70  | 12         | 9             | 10     | 11                     |
| 1913..... | 58.1        | 88      | 19     | 1.99          | 3.08     | 0.90  | 13         | 9             | 9      | 5                      |
| 1914..... | 58.2        | 84      | 23     | 3.03          | 5.18     | 1.89  | 17         | 7             | 7      | 9                      |
| 1915..... | 56.1        | 92      | 23     | 1.87          | 2.38     | 0.51  | 18         | 8             | 5      | 4                      |
| 1916..... | 50.7        | 84      | 22     | 6.99          | 9.74     | 4.28  | 15         | 8             | 8      | 10                     |
| 1917..... | 57.0        | 84      | 22     | 1.25          | 2.36     | 0.74  | 16         | 9             | 6      | 8                      |
| 1918..... | 59.0        | 92      | 25     | 3.43          | 4.97     | 2.01  | 9          | 8             | 14     | 13                     |
| 1919..... | 50.0        | 87      | 28     | 1.80          | 4.58     | 0.55  | 20         | 5             | 6      | 5                      |
| 1920..... | 54.1        | 82      | 16     | 0.97          | 2.18     | 0.33  | 18         | 7             | 6      | 5                      |
| 1921..... | 56.6        | 92      | 18     | 1.48          | 2.70     | 0.55  | 19         | 6             | 6      | 7                      |
| 1922..... | 53.9        | 81      | 21     | 4.25          | 6.37     | 2.35  | 16         | 8             | 7      | 8                      |
| 1923..... | 54.4        | 84      | 16     | 0.31          | 2.76     | T.    | 23         | 6             | 2      | 1                      |
| 1924..... | 49.1        | 84      | 12     | 4.59          | 5.78     | 3.38  | 9          | 9             | 13     | 11                     |



## Climatological Data for October, 1925

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers                 |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|---------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |                           |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                           |
| Belvidere.....                              | Warren.....     | 289             | 34                      | 47.4                         | -6.4                      | 78      | 3    | 18     | 31   | 37                       | 5.58  | +1.91                     | 1.82                 | 2.8                       | 13                           | 16    | 3          | 12                           | Miss C. S. Hixson.        |
| Charlotteburg.....                          | Passaic.....    | 719             | 33                      | 45.0 <sup>b</sup>            | -6.6                      | 76      | 17   | 20     | 29   | 41                       | 4.38  | -0.09                     | 0.78                 | 2.0                       | 12                           | 5     | 3          | 23                           | Newark Water Dept.        |
| Culvers Lake†.....                          | Sussex.....     | 848             | 24                      |                              |                           |         |      | 17     | 31   |                          | 4.28  | +0.10                     | 1.27                 | 4.1                       | 14                           | 8     | 11         | 12                           | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600             | 41                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480             | 24                      | 44.3                         | -7.2                      | 74      | 17   | 12     | 31   | 37                       | 3.56  | -0.06                     | 0.61                 | 4.0                       | 13                           | 4     | 4          | 23                           | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769             | 42                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | Irving J. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363             | 42                      | 48.4                         | -5.5                      | 73      | 3†   | 30     | 28†  | 29                       | 5.05  | +1.49                     | 1.34                 | 3.4                       | 14                           | 11    | 8          | 12                           | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 46.2 <sup>b</sup>            | -7.0                      | 73      | 17   | 13     | 31   | 32                       | 4.18  | +0.74                     | 1.50                 | 3.8                       | 11                           | 11    | 10         | 10                           | A. J. W. Mowatt.          |
| Means and extremes.....                     |                 |                 |                         | 46.3                         | -6.5                      | 78      | 3    | 12     | 31   | 41                       | 4.50  | +0.68                     | 1.82                 | 3.4                       | 13                           | 9     | 7          | 15                           | nw.                       |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                           |
| Bergen Point††.....                         | Hudson.....     | 37              | 28                      | 50.4 <sup>a</sup>            | -5.8                      | 76      | 3†   | 28     | 31   | 24                       | 4.92  | +0.25                     | 1.62                 | 3.5                       | 13                           | 8     | 19         | 9                            | William H. Mitchell       |
| Boonton.....                                | Morris.....     | 400             | 35                      | 46.0                         | -6.8                      | 74      | 3†   | 24     | 28†  | 35                       | 4.60  | +0.69                     | 0.90                 |                           | 11                           |       |            |                              | John Kline.               |
| Chatham.....                                | Morris.....     | 185             | 21                      |                              |                           |         |      |        |      |                          | 4.27  | +0.06                     | 0.94                 |                           | 9                            | 5     | 21         | 5                            | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45              | 46                      | 49.8                         | -5.6                      | 77      | 3†   | 27     | 31   | 30                       | 5.28  | +1.39                     | 2.10                 | 2.0                       | 12                           | 10    | 11         | 10                           | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140             | 39                      | 49.2                         | -6.8                      | 75      | 17   | 25     | 31   | 32                       | 5.50  | +1.84                     | 1.73                 | 2.5                       | 15                           | 11    | 6          | 14                           | Hiram E. Deats.           |
| Highwood††.....                             | Bergen.....     | 90              | 37                      | 47.6                         | -5.8                      | 74      | 17   | 25     | 31   | 30                       | 4.60  | +0.18                     | 1.28                 | 1.5                       | 10                           | 6     | 9          | 16                           | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10              | 27                      | 50.3                         | -6.0                      | 76      | 17   | 31     | 29†  | 27                       | 4.48  | +0.80                     | 1.23                 | 1.0                       | 14                           | 5     | 14         | 12                           | S. K. Pearson, Jr.        |
| Lambertville.....                           | Hunterdon.....  | 370             | 38                      | 47.6                         | -7.0                      | 74      | 17   | 24     | 31   | 26                       | 5.74  | +2.26                     | 1.59                 | 2.0                       | 15                           | 9     | 7          | 15                           | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180             | 22                      | 47.2                         | -7.7                      | 76      | 3    | 22     | 31   | 32                       | 4.60  | +0.09                     | 1.14                 | 1.5                       | 13                           | 10    | 11         | 10                           | Passaic Consol. Water Co  |
| New Brunswick.....                          | Middlesex.....  | 110             | 72                      | 49.2                         | -5.6                      | 77      | 17   | 25     | 31   | 29                       | 5.22  | +1.64                     | 1.51                 | 1.3                       | 11                           | 12    | 9          | 10                           | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 9               | 5                       |                              |                           |         |      |        |      |                          | 4.43  |                           | 1.60                 |                           | 12                           |       |            |                              | Hackensack Water Co       |
| Paterson.....                               | Passaic.....    | 80              | 54                      | 49.6                         | -5.6                      | 76      | 17   | 27     | 31   | 27                       | 4.96  | +0.87                     | 1.50                 | 1.0                       | 12                           | 14    | 2          | 15                           | Marion T. Probert.        |
| Plainfield.....                             | Union.....      | 120             | 37                      | 46.8 <sup>b</sup>            | -7.4                      | 75      | 17   | 23     | 31   | 29                       | 5.58  | +1.43                     | 2.00                 | 2.0                       | 13                           | 8     | 11         | 12                           | E. D. Pearson.            |
| Ridgefield†.....                            | Bergen.....     | 80              | 7                       | 47.8                         |                           | 75      | 17   | 25     | 31   | 28                       | 5.02  |                           | 1.27                 | 2.0                       | 13                           | 6     | 10         | 15                           | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 70              | 42                      | 48.8                         | -5.5                      | 76      | 3    | 25     | 24†  | 32                       | 5.19  | +1.75                     | 1.63                 | 1.0                       | 9                            | 14    | 5          | 12                           | H. B. TenEyck.            |
| South Orange.....                           | Essex.....      | 200             | 55                      | 48.4                         | -5.0                      | 75      | 17   | 31     | 29†  | 26                       | 5.78  | +1.94                     | 1.52                 | 1.2                       | 12                           | 14    | 7          | 10                           | William H. Meeder.        |
| Woodcliff Lake†.....                        | Bergen.....     | 100             | 5                       |                              |                           |         |      |        |      |                          | 3.50  |                           | 0.85                 |                           | 9                            |       |            |                              | Hackensack Water Co.      |
| New York, N. Y.....                         |                 | 365             | 55                      | 49.8                         | -6.5                      | 76      | 17   | 31     | 29   | 27                       | 4.13  | +0.42                     | 1.32                 | 0.4                       | 13                           | 5     | 13         | 13                           | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                 |                         | 48.5                         | -6.2                      | 77      | 3†   | 22     | 31   | 35                       | 4.92  | +1.08                     | 2.10                 | 1.6                       | 12                           | 9     | 10         | 12                           | nw.                       |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                           |
| Belleplain.....                             | Cape May.....   | 30              | 31                      | 49.5 <sup>a</sup>            | -6.8                      | 83      | 17   | 20     | 28   |                          | 4.95  | +1.53                     | 1.73                 | 1.1                       | 13                           |       |            |                              | Thomas J. Durell.         |
| Bridgeton.....                              | Cumberland..... | 90              | 44                      | 51.0                         | -6.4                      | 80      | 17   | 26     | 31   | 33                       | 3.83  | +0.24                     | 0.94                 | 5.1                       | 14                           | 8     | 8          | 15                           | Harold K. Tryon.          |
| Burlington.....                             | Burlington..... | 12              | 39                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | D. S. B. McCoy.           |
| Clayton.....                                | Gloucester..... | 130             | 29                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | Charles H. Dilks.         |
| Freehold†.....                              | Monmouth.....   | 180             | 25                      |                              |                           |         |      |        |      |                          | 4.22  | +0.70                     | 1.00                 | 2.0                       | 12                           |       |            |                              | County Agr'l Agent.       |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | Charles M. Phillips.      |
| Hightstown.....                             | Mercer.....     | 120             | 33                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | Milton H. Cunningham.     |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 48.2†                        | -6.9                      |         |      | 24     | 31   |                          | 4.98  | +1.12                     | 1.30                 |                           | 13                           |       |            |                              | Frank M. Lawrence.        |
| Indian Mills†.....                          | Burlington..... | 76              | 36                      | 50.8                         | -4.7                      | 80      | 17   | 26     | 31   | 33                       | 5.69  | +2.25                     | 1.48                 | 3.0                       | 13                           | 6     | 12         | 13                           | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54              | 21                      | 49.0                         | -6.1                      | 79      | 17   | 24     | 24   | 28                       | 4.73  | +1.14                     | 1.12                 | T.                        | 12                           | 9     | 4          | 18                           | R. W. Holman.             |
| Moorestown.....                             | Burlington..... | 75              | 62                      | 50.6                         | -4.1                      | 77      | 17   | 25     | 31   | 35                       | 5.23  | +1.66                     | 1.90                 | 2.5                       | 9                            | 8     | 13         | 10                           | John B. Warrick.          |
| Northfield†.....                            | Atlantic.....   | 25              | 18                      |                              |                           |         |      |        |      |                          | 3.38  | +0.60                     | 0.78                 | 0.4                       | 13                           |       |            |                              | William L. Flick.         |
| Pleasantville†.....                         | Atlantic.....   | 26              | 27                      | 50.2                         |                           | 83      | 17   | 24     | 28   | 36                       | 3.65  | +0.21                     | 0.95                 |                           | 12                           | 15    | 6          | 10                           | N. J. Dept. Conservation. |
| Runyon†.....                                | Middlesex.....  | 18              |                         | 48.8 <sup>d</sup>            |                           | 80      | 17   | 20     | 24   |                          | 4.59  |                           | 1.44                 |                           | 12                           | 9     | 17         | 5                            | N. J. Dept. Conservation. |
| Trenton.....                                | Mercer.....     | 190             | 53                      | 49.7                         | -5.9                      | 77      | 17   | 26     | 31   | 27                       | 3.97  | +0.56                     | 1.12                 | 1.0                       | 13                           | 6     | 7          | 18                           | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23              | 32                      | 51.8                         | -4.3                      | 84      | 17   | 27     | 24   | 30                       | 3.44  | -0.09                     | 1.10                 | T.                        | 9                            | 9     | 15         | 7                            | Mrs. Sophie M. Austin.    |
| Vineland.....                               | Cumberland..... | 109             | 56                      | 52.4                         | -3.6                      | 82      | 17   | 27     | 31   | 28                       | 3.77  | +0.43                     | 1.02                 |                           | 11                           | 10    | 7          | 14                           | H. C. Himes.              |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 52.2                         | -5.6                      | 77      | 17   | 29     | 31   | 23                       | 4.14  | +1.04                     | 0.98                 | 1.1                       | 12                           | 4     | 13         | 14                           | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                 |                         | 50.2                         | -5.4                      | 84      | 17   | 20     | 24†  | 36                       | 4.35  | +0.88                     | 1.90                 | 1.5                       | 12                           | 9     | 10         | 12                           | nw.                       |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                           |
| Asbury Park.....                            | Monmouth.....   | 22              | 36                      | 51.2                         | -4.6                      | 79      | 17   | 33     | 11†  | 27                       | 5.14  | +1.43                     | 1.69                 | T.                        | 11                           | 14    | 13         | 4                            | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16              | 51                      | 52.6                         | -4.3                      | 82      | 17   | 31     | 29   | 28                       | 3.65  | +0.35                     | 1.25                 | 0                         | 13                           | 8     | 8          | 15                           | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17              | 41                      | 53.3                         | -5.8                      | 78      | 17   | 32     | 31   | 26                       | 3.41  | +0.11                     | 0.82                 | T.                        | 15                           | 6     | 5          | 20                           | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25              | 18                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22              | 27                      | 51.0                         | -6.0                      | 75      | 17   | 31     | 31   | 23                       | 4.06  | +0.81                     | 1.68                 | T.                        | 13                           | 4     | 12         | 15                           | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                 |                         | 52.2                         | -5.2                      | 82      | 17   | 31     | 29†  | 28                       | 4.06  | +0.68                     | 1.69                 | T.                        | 13                           | 8     | 9          | 14                           | nw.                       |
| For the State.....                          |                 |                 |                         | 49.1                         | -5.9                      | 84      | 17   | 12     | 31   | 41                       | 4.59  | +0.90                     | 2.10                 | 1.7                       | 11                           | 9     | 9          | 13                           | nw.                       |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere



## Daily Precipitation for October, 1925

| Stations                                   | Drainage Basin  | Day of month |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     | Total |      |
|--------------------------------------------|-----------------|--------------|-----|-----|------|------|-----|----|---|-----|-----|----|----|-----|-----|------|-----|------|-----|-----|-----|----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-------|------|
|                                            |                 | 1            | 2   | 3   | 4    | 5    | 6   | 7  | 8 | 9   | 10  | 11 | 12 | 13  | 14  | 15   | 16  | 17   | 18  | 19  | 20  | 21 | 22  | 23  | 24  | 25   | 26   | 27  | 28  | 29  | 30  | 31  |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Belvidere.....                             | Delaware.....   |              |     | .65 | .15  | .39  |     |    |   | .45 |     |    |    |     |     | .82  |     | .30  | T.  |     |     |    | .07 | .29 | .18 | 1.82 |      |     |     | .02 | .35 | .09 | 5.58  |      |
| Charlotteburg.....                         | Passaic.....    |              |     | .50 | *    | .37  |     |    |   | .29 |     |    |    |     |     | .78  |     | .20  | .08 |     |     |    |     | .06 | *   | 1.88 |      |     |     | .01 | .25 | .06 | 4.38  |      |
| Culvers Lake.....                          | Delaware.....   |              |     | .48 | .10  | .30  |     | T. |   | .38 | .02 |    |    |     |     | .62  |     | .20  | .02 | T.  |     |    |     | .29 | .28 | 1.27 |      |     |     |     |     |     | 4.28  |      |
| Dover.....                                 | Passaic.....    |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Layton.....                                | Delaware.....   |              |     | .58 | .04  | .28  |     |    |   | .48 | T.  |    |    |     | T.  | .48  |     | .17  |     | .02 |     |    |     | .04 | .48 | .61  |      |     |     |     | .04 | *   | .34   | 3.56 |
| Newton.....                                | Delaware.....   |              |     |     |      |      |     |    |   |     |     |    |    |     |     | .72  | .05 | .23  | T.  | T.  |     |    | .22 | .05 | .36 | 1.34 |      |     | .02 |     | .28 |     | 5.05  |      |
| Phillipsburg.....                          | do.....         |              | .06 | .69 | .40  | .17  |     |    |   | .46 | T.  |    |    |     |     |      |     | .23  |     |     |     |    |     |     |     | .36  | 1.34 |     |     |     |     | .28 |       |      |
| Sussex.....                                | Hudson.....     |              |     | *   | .46  | .29  |     |    |   | .33 | T.  |    |    |     |     |      |     | .85  |     | *   |     |    | .16 | .10 | .18 | 1.50 |      |     |     | .04 | .27 |     | 4.18  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Bergen Point**.....                        | Coast.....      |              |     | .45 | .40  | .37  |     |    |   | .21 |     |    |    |     |     | .80  | .04 | .48  | .03 |     | .04 |    |     | T.  | .02 | .53  | 1.10 |     |     | T.  | .45 | T.  | 4.92  |      |
| Boonton   .....                            | Passaic.....    |              |     | .63 |      | .72  | T.  |    |   | .25 |     |    |    |     |     | .90  | .15 | .05  |     |     |     |    |     | .05 |     | .82  | .80  |     |     | .03 |     | .20 | 4.60  |      |
| Chatham   .....                            | do.....         |              |     | .94 |      | .76  | .03 |    |   | .26 |     |    |    |     |     | .94  | .33 |      |     |     |     |    |     | T.  |     | .16  | .54  |     |     |     | *   | .31 | 4.27  |      |
| Elizabeth.....                             | Coast.....      |              |     | .52 | *    | .77  |     |    |   | *   | .13 |    |    |     |     | 1.05 | .42 |      |     |     |     |    |     | .04 | *   | 2.10 |      |     |     |     | *   | .25 | 5.28  |      |
| Flemington.....                            | Raritan.....    |              |     | .74 | .26  | .38  |     |    |   | .41 | .02 |    |    |     |     | .10  | .76 | .45  |     | T.  |     |    | .13 | .06 | .16 | 1.73 |      |     |     |     | .18 | .12 | 5.50  |      |
| Highwood.....                              | Hackensack..... |              |     | .76 | .30  | .82  |     |    |   | .17 |     |    |    |     |     | .18  | .52 | T.   | .16 |     |     |    |     |     |     | .25  | 1.28 |     |     |     | T.  | .16 | T.    | 4.60 |
| Jersey City.....                           | Coast.....      |              | T.  | .45 | .30  | .50  |     |    |   | .09 | T.  |    |    |     |     | .17  | .72 | T.   | .40 |     |     |    |     | .01 | .35 | 1.23 |      |     |     | T.  | .04 | .22 | 4.48  |      |
| Lambertville.....                          | Delaware.....   |              |     | .46 | .43  | .23  |     |    |   | .47 | .02 |    |    |     |     | .04  | .71 | 1.00 |     | T.  |     |    | .02 | .06 | .38 | 1.59 |      |     |     | .03 | .25 | .05 | 5.74  |      |
| Little Falls.    .....                     | Passaic.....    |              |     | .59 |      | .96  | .01 |    |   | .20 |     |    |    |     |     | .76  | .13 | .03  |     |     |     |    |     | .04 |     | .14  | .45  |     |     | .05 |     | .24 | 4.60  |      |
| New Brunswick.....                         | Raritan.....    |              |     | .54 | .23  | .37  |     |    |   | .21 | T.  |    |    |     |     | .88  |     | 1.04 |     |     |     |    | T.  | .04 | .18 | 1.51 |      |     |     |     | .18 | .04 | 5.22  |      |
| New Milford.**.....                        | Hackensack..... |              |     | .80 | .43  | .47  |     |    |   | .19 |     |    |    |     |     | .68  | .13 | .04  |     |     |     |    |     |     |     | .35  | 1.25 |     |     | .05 |     | .03 | .01   | 4.43 |
| Paterson.....                              | Passaic.....    |              | T.  | .78 | .10  | .84  |     |    |   | .20 | T.  |    |    |     |     | .04  | .76 |      | .26 | T.  |     |    |     |     | .02 | .14  | 1.50 |     |     |     | .10 | .18 | .04   | 4.96 |
| Plainfield.....                            | Raritan.....    |              |     | .86 | .27  | .45  |     |    |   | .22 | T.  |    |    |     |     | .49  | .41 | *    | .50 |     | T.  |    |     | T.  | .05 | .30  | 1.81 |     |     |     | T.  | .22 | 5.58  |      |
| Ridgefield.....                            | Hackensack..... |              |     | .67 | *    | .92  |     |    |   | .12 |     |    |    |     |     | *    | .79 | *    | .99 |     |     |    |     | *   | .01 | *    | 1.27 |     |     | .05 |     | .20 | 5.02  |      |
| Somerville.....                            | Raritan.....    |              |     | .90 | .13  | .46  |     |    |   | .30 |     |    |    |     |     | .84  |     | .54  |     | T.  |     |    |     |     |     | .16  | 1.63 |     |     |     |     | .23 | 5.19  |      |
| South Orange.....                          | Rahway.....     |              | T.  | .72 | .61  | .22  |     |    |   | .27 | T.  |    |    |     |     | 1.03 | .13 | .29  | .02 |     |     |    | .06 | T.  | .65 | 1.52 |      |     |     |     | .01 |     | 3.50  |      |
| Woodcliff Lake**.....                      | Hackensack..... |              |     | .53 | .33  | .52  |     |    |   | .11 |     |    |    |     |     | .68  | .15 |      |     |     |     |    |     |     |     | .34  | .83  |     |     |     |     | .01 |       | 4.13 |
| New York, N. Y***.....                     | Coast.....      |              | T.  | .46 | .28  | .44  |     |    |   | .10 | T.  |    |    |     |     | .80  | .04 | .42  | .04 |     | T.  |    |     | T.  | .01 | .55  | .79  |     |     | .02 | .18 |     |       |      |
| <i>The Southern Interior.</i>              |                 |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |     | .15 | *    | 1.73 |     |    |   | .26 |     |    |    | .03 |     | .81  |     | .09  |     |     |     |    |     | .11 | .01 | .36  | .84  |     |     |     | .12 | .44 | 4.95  |      |
| Bridgeton.....                             | Coast.....      |              |     | .44 | .53  |      |     |    |   | .36 |     |    |    | T.  | .05 | .15  | .38 | .01  | .13 |     |     |    |     | .10 | .01 | .40  | .94  |     |     |     | .13 | .20 | 3.83  |      |
| Burlington.....                            | Delaware.....   |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Clayton.....                               | Delaware.....   |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Freehold   .....                           | Coast.....      |              |     | .46 | *    | .78  |     |    |   | .24 |     |    |    |     |     |      | .84 | *    |     |     |     |    |     | *   |     | 1.00 | .70  |     |     |     |     | \$  | \$    |      |
| Hammonton.....                             | Mullica.....    |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Hightstown.....                            | Raritan.....    |              |     |     |      |      |     |    |   |     |     |    |    |     |     | *    |     | .60  |     |     |     |    |     | .07 | .03 | .19  | 1.30 |     |     |     | .30 | .11 | 4.98  |      |
| Imlaytown.....                             | Delaware.....   |              |     | .60 | .24  | .69  |     |    |   | .27 |     |    |    |     |     | *    |     | .58  | .68 |     |     |    |     | .04 |     | .28  | 1.20 |     |     |     | .06 | .26 | 5.69  |      |
| Indian Mills.....                          | Mullica.....    |              |     | .78 | 1.06 | .26  |     |    |   | .38 |     |    |    |     | .07 | .08  | .54 |      | .68 |     |     |    |     |     |     | .40  | 1.12 |     |     |     | .13 | .10 | 4.73  |      |
| Lakewood.....                              | Metedeconk..... |              |     | .37 | .47  | .48  |     |    |   | .28 | T.  |    |    |     |     | T.   | .82 | .02  | .46 |     | T.  |    |     | .08 |     | .40  | 1.12 |     |     |     |     |     | 5.23  |      |
| Moorestown.....                            | Delaware.....   |              |     | .47 | .86  |      |     |    |   | .53 |     |    |    |     |     |      | .54 | .44  |     |     |     |    |     | .03 |     | .15  | 1.90 |     |     |     | .31 |     | 3.88  |      |
| Northfield.....                            | Coast.....      |              |     | .05 | .27  | .69  |     |    |   | .18 |     |    |    |     | .08 | .03  | .32 |      |     |     |     |    |     | .07 |     | .42  | .78  |     |     |     | .26 | .20 |       |      |
| Pleasantville   .....                      | Coast.....      |              |     | .08 |      | .95  |     |    |   | .21 |     |    |    |     | .07 |      | .49 |      | .02 |     |     |    |     |     | .06 |      | .82  | .48 |     |     |     | .47 | 3.65  |      |
| Runyon.....                                | Coast.....      |              |     | .45 | .25  | .32  |     |    |   | .15 | .04 |    |    |     |     | .77  | .07 | .66  |     |     |     |    |     | .03 | .17 | 1.44 |      |     |     |     | .15 | .09 | 4.59  |      |
| Trenton***.....                            | Delaware.....   |              | .03 | .50 | .46  | .02  | T.  |    |   | .41 | T.  |    |    |     |     | .65  |     | .55  | .02 |     |     |    | .01 | .02 | .51 | .63  |      |     |     | T.  |     | .16 | 3.97  |      |
| Tuckerton.....                             | Coast.....      |              |     | .25 | .30  |      |     |    |   | .30 |     |    |    |     | .04 |      | .67 |      | .15 |     |     |    |     |     |     | .23  | 1.10 |     |     |     |     | .40 | 3.44  |      |
| Vineland.....                              | Maurice.....    |              |     | .40 | .35  | .05  |     |    |   | .61 | T.  |    |    |     |     |      | .15 | .41  |     | .70 |     |    |     | .07 |     | .33  | 1.02 |     |     |     |     | .07 | .22   | 3.77 |
| Phila., Pa***.....                         | Delaware.....   |              |     | .02 | .29  | .97  | .01 |    |   | .61 | T.  |    |    |     |     |      | .51 |      | .26 | .13 |     | T. |     | .07 |     | .45  | .49  |     |     |     | .33 |     | 4.14  |      |
| <i>The Sea Coast.</i>                      |                 |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Asbury Park.....                           | Coast.....      |              |     | .23 | .81  | .28  |     |    |   | .21 |     |    |    |     |     | .28  | .83 | .03  | .45 |     |     |    |     |     |     | *    | 1.69 |     |     |     | .33 |     | 5.14  |      |
| Atlantic City***.....                      | do.....         |              |     | .02 | .03  | 1.25 | T.  |    |   | .31 |     |    |    | .01 | .06 | .13  | .03 | T.   |     | T.  |     |    |     | .08 |     | .58  | .58  |     |     |     | .53 | .04 | 3.65  |      |
| Cape May City.....                         | do.....         |              | T.  | .20 | .10  | .13  |     |    |   | .09 |     |    |    | T.  | .13 | .16  | .04 | .04  | .04 |     | T.  |    |     | .71 | .01 | .54  | .82  |     |     |     | .18 | .22 | 3.41  |      |
| Long Branch**.....                         | do.....         |              |     |     |      |      |     |    |   |     |     |    |    |     |     |      |     |      |     |     |     |    |     |     |     |      |      |     |     |     |     |     |       |      |
| Sandy Hook***.....                         | do.....         |              |     | .02 | .30  | .28  | .22 |    |   | .12 |     |    |    |     |     | .81  | .01 | .35  | .12 |     | T.  |    |     | T.  | .02 | .76  | .92  |     |     |     |     | .13 |       | 4.06 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                         | Sun-<br>shine                      |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Data |                                        |                                         |                                    |
|                       |              |         |      |        |      |                 |                |           |      |                                        |                                         |                                    |
| Atlantic City.....    | 29.99        | 30.48   | 30   | 29.17  | 25   | 17.6            | 68             | s.        | 25   | 71                                     | 69                                      | 42                                 |
| Cape May City.....    | 30.05        | 30.48   | 31   | 29.28  | 25   | 8.7             | 44             | nw.       | 25   | 74                                     | 73                                      | .....                              |
| Long Branch.....      | 29.98        | 30.51   | 31   | 29.06  | 25   | 19.3            | 84             | nw.       | 10   | 72                                     | 66                                      | 53                                 |
| New York, N. Y.....   | 30.00        | 30.50   | 30   | 29.18  | 25   | 8.9             | 48             | s.        | 25   | 68                                     | 69                                      | 43                                 |
| Philadelphia, Pa..... | 29.98        | 30.51   | 31   | 29.05  | 25   |                 |                |           |      |                                        |                                         |                                    |
| Ridgefield.....       | 29.97        | 30.50   | 31   | 29.03  | 25   | 17.4            | 68             | nw.       | 10   | 71                                     | 66                                      | 52                                 |
| Sandy Hook.....       | 29.99        | 30.49   | 30   | 29.14  | 25   | 11.1            | 56             | nw.       | 10   | 69                                     | 66                                      | 41                                 |



## Daily Temperatures for October, 1925

| Stations                             | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean              |                   |      |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|------|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |
| Belvidere.....                       | Maximum | 60    | 59    | 78    | 65    | 62    | 59    | 66    | 69    | 55    | 45    | 60    | 56    | 67    | 62    | 70    | 73    | 72    | 59    | 62    | 49    | 50    | 48    | 54    | 44    | 55    | 57    | 54    | 59    | 48    | 35    | 43                | 57.9              |      |
|                                      | Minimum | 34    | 49    | 55    | 46    | 48    | 38    | 46    | 32    | 41    | 32    | 31    | 41    | 35    | 30    | 47    | 47    | 55    | 37    | 40    | 34    | 30    | 30    | 28    | 41    | 36    | 34    | 27    | 27    | 18    | 37.0  |                   |                   |      |
| Charlotteburg.....                   | Maximum | 64    | ..... | 70    | 68    | 60    | 58    | 60    | 63    | 55    | 48    | 53    | 53    | 59    | 55    | ..... | 71    | 76    | 73    | 58    | 48    | 44    | 47    | 48    | 48    | 54    | 55    | 58    | 52    | 40    | 34    | .....             | 56.1 <sup>a</sup> |      |
|                                      | Minimum | 23    | 46    | 50    | 46    | 47    | 38    | 40    | 28    | 32    | 30    | 34    | 38    | 33    | 21    | 48    | 41    | 52    | 36    | 32    | 34    | 28    | 26    | 30    | 23    | 40    | 38    | 29    | 29    | 20    | 22    | 21                | 34.0              |      |
| Dover.....                           | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
| Layton.....                          | Maximum | 59    | 57    | 69    | 58    | 57    | 58    | 64    | 46    | 46    | 45    | 51    | 55    | 58    | 56    | 67    | 72    | 74    | 55    | 57    | 47    | 48    | 47    | 48    | 45    | 57    | 55    | 49    | 55    | 47    | 32    | 44                | 54.6              |      |
|                                      | Minimum | 29    | 48    | 54    | 43    | 45    | 34    | 44    | 30    | 34    | 30    | 33    | 41    | 31    | 24    | 41    | 35    | 52    | 32    | 38    | 35    | 31    | 28    | 26    | 25    | 38    | 38    | 30    | 24    | 27    | 23    | 12                | 34.0              |      |
| Newton.....                          | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
| Phillipsburg.....                    | Maximum | 58    | 60    | 73    | 66    | 60    | 60    | 63    | 63    | 50    | 44    | 56    | 56    | 63    | 60    | 67    | 70    | 73    | 53    | 63    | 54    | 51    | 49    | 52    | 50    | 61    | 54    | 54    | 44    | 42    | 57.0  |                   |                   |      |
|                                      | Minimum | 36    | 52    | 59    | 50    | 47    | 43    | 44    | 34    | 40    | 34    | 33    | 43    | 38    | 32    | 50    | 48    | 52    | 39    | 40    | 38    | 33    | 36    | 32    | 31    | 45    | 41    | 34    | 30    | 30    | 31    | 39.8 <sup>a</sup> |                   |      |
| Sussex.....                          | Maximum | 62    | 58    | 71    | 62    | 55    | 59    | 59    | 63    | 57    | 47    | 55    | 56    | 61    | 57    | 69    | 72    | 73    | 59    | 56    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 56.8 <sup>b</sup> |      |
|                                      | Minimum | 30    | 48    | 55    | 43    | 47    | 36    | 44    | 31    | 38    | 32    | 32    | 42    | 31    | 26    | 48    | 42    | 55    | 33    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 35.7 <sup>b</sup> |      |
| The Red Sandstone Plain.             |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |
| Bergen Point.....                    | Maximum | 64    | 62    | 76    | 65    | 62    | 62    | 63    | 64    | 55    | 51    | 51    | 56    | 62    | 61    | 70    | 73    | 76    | 58    | 62    | 51    | 50    | 50    | 50    | 51    | 67    | 55    | 55    | 50    | 40    | 41    | 58.3              |                   |      |
|                                      | Minimum | 47    | ..... | 62    | 49    | 52    | 45    | 52    | 43    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 42.5 <sup>b</sup> |      |
| Boonton§§.....                       | Maximum | 63    | 61    | 74    | 61    | 60    | 61    | 61    | 64    | 52    | 47    | 64    | 56    | 60    | 59    | 69    | 71    | 74    | 53    | 59    | 50    | 49    | 49    | 50    | 49    | 59    | 55    | 54    | 55    | 42    | 36    | 44                | 56.8              |      |
|                                      | Minimum | 28    | 37    | 51    | 46    | 48    | 39    | 47    | 31    | 35    | 33    | 34    | 38    | 37    | 33    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 35.2 <sup>a</sup> |      |
| Elizabeth.....                       | Maximum | 64    | 63    | 77    | 66    | 64    | 65    | 64    | 65    | 61    | 53    | 58    | 57    | 64    | 62    | 72    | 74    | 77    | 61    | 62    | 57    | 51    | 50    | 54    | 51    | 67    | 56    | 56    | 55    | 52    | 39    | 42                | 60.0              |      |
|                                      | Minimum | 36    | 53    | 53    | 51    | 50    | 39    | 50    | 35    | 41    | 36    | 32    | 43    | 39    | 33    | 50    | 52    | 58    | 39    | 44    | 33    | 31    | 35    | 32    | 29    | 45    | 39    | 35    | 31    | 29    | 29    | 27                | 39.6              |      |
| Flemington.....                      | Maximum | 59    | 60    | 72    | 67    | 60    | 61    | 61    | 67    | 61    | 50    | 54    | 57    | 65    | 60    | 69    | 74    | 75    | 60    | 64    | 58    | 50    | 49    | 56    | 47    | 66    | 58    | 58    | 54    | 51    | 37    | 44                | 58.8              |      |
|                                      | Minimum | 35    | 52    | 58    | 51    | 49    | 43    | 50    | 35    | 38    | 34    | 32    | 42    | 40    | 33    | 51    | 51    | 58    | 40    | 46    | 36    | 33    | 31    | 33    | 29    | 44    | 38    | 34    | 29    | 29    | 25    | 39.7              |                   |      |
| Highwood.....                        | Maximum | 61    | 60    | 71    | 63    | 65    | 60    | 59    | 59    | 53    | 50    | 53    | 56    | 59    | 58    | 69    | 71    | 74    | 56    | 60    | 52    | 51    | 48    | 51    | 50    | 63    | 56    | 55    | 54    | 48    | 36    | 41                | 56.8              |      |
|                                      | Minimum | 31    | 48    | 60    | 47    | 48    | 37    | 42    | 34    | 40    | 36    | 34    | 44    | 40    | 29    | 49    | 46    | 54    | 36    | 40    | 35    | 32    | 32    | 29    | 45    | 39    | 44    | 27    | 28    | 26    | 25    | 38.4              |                   |      |
| Jersey City.....                     | Maximum | 60    | 61    | 73    | 62    | 59    | 60    | 62    | 61    | 58    | 47    | 53    | 56    | 61    | 57    | 70    | 71    | 76    | 52    | 61    | 50    | 49    | 50    | 51    | 66    | 54    | 54    | 52    | 50    | 39    | 43    | 57.1              |                   |      |
|                                      | Minimum | 48    | 55    | 61    | 53    | 47    | 46    | 50    | 44    | 43    | 35    | 35    | 43    | 45    | 46    | 51    | 57    | 49    | 43    | 40    | 37    | 37    | 42    | 38    | 41    | 49    | 42    | 41    | 36    | 31    | 32    | 43.5              |                   |      |
| Lambertville.....                    | Maximum | 57    | 61    | 72    | 62    | 60    | 59    | 60    | 61    | 51    | 48    | 51    | 54    | 58    | 61    | 66    | 71    | 74    | 57    | 59    | 47    | 47    | 50    | 49    | 44    | 65    | 52    | 51    | ..... | 49    | 35    | 40                | 55.7 <sup>a</sup> |      |
|                                      | Minimum | 37    | 51    | 58    | 52    | 47    | 43    | 44    | 35    | 41    | 33    | 30    | 41    | 42    | 35    | 49    | 54    | 57    | 40    | 44    | 34    | 33    | 35    | 31    | 31    | 43    | 37    | 37    | 31    | 29    | 30    | 24                | 39.6              |      |
| Little Falls§§.....                  | Maximum | 62    | 64    | 76    | 62    | 60    | 60    | 61    | 65    | 56    | 47    | 56    | 57    | 55    | 59    | 72    | 72    | 72    | 56    | 60    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 57.1 <sup>a</sup> |      |
|                                      | Minimum | 31    | 50    | 55    | 47    | 49    | 38    | 48    | 33    | 38    | 34    | 34    | 42    | 36    | 29    | 41    | 44    | 56    | 36    | 40    | 36    | 34    | 32    | 33    | 28    | 38    | 40    | 32    | 27    | 27    | 22    | 37.4              |                   |      |
| New Brunswick.....                   | Maximum | 62    | 61    | 74    | 68    | 61    | 61    | 61    | 63    | 54    | 51    | 54    | 56    | 60    | 69    | 73    | 73    | 75    | 52    | 61    | 51    | 50    | 48    | 50    | 61    | 66    | 54    | 54    | 52    | 50    | 39    | 40                | 58.4 <sup>a</sup> |      |
|                                      | Minimum | 33    | 52    | 58    | 51    | 50    | 43    | 51    | 34    | 38    | 32    | 32    | 41    | 43    | 33    | 50    | 54    | 58    | 42    | 43    | 36    | 34    | 35    | 32    | 44    | 39    | 34    | 30    | 30    | 31    | 25    | 39.9              |                   |      |
| Paterson.....                        | Maximum | 65    | 61    | 73    | 64    | 62    | 62    | 64    | 63    | 55    | 52    | 55    | 57    | 63    | 60    | 69    | 72    | 76    | 60    | 61    | 52    | 52    | 50    | 46    | 50    | 57    | 58    | 56    | 54    | 50    | 39    | 42                | 58.1              |      |
|                                      | Minimum | 38    | 53    | 59    | 51    | 51    | 44    | 49    | 40    | 44    | 36    | 35    | 45    | 40    | 35    | 50    | 48    | 57    | 40    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 41.1 <sup>a</sup> |      |
| Plainfield.....                      | Maximum | 60    | 61    | 74    | 63    | 59    | 60    | 62    | 62    | 54    | 48    | 55    | 56    | 62    | 58    | 70    | 72    | 75    | 52    | 62    | 52    | 50    | 53    | 52    | 63    | 61    | 55    | 56    | 50    | 36    | 43    | 57.7              |                   |      |
|                                      | Minimum | 32    | ..... | 51    | 47    | ..... | 39    | 49    | 33    | 38    | 34    | 32    | 38    | 35    | 30    | 49    | 46    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 53.9 <sup>a</sup> |      |
| Ridgefield.....                      | Maximum | 62    | 62    | 72    | 62    | 60    | 60    | 62    | 61    | 53    | 42    | 34    | 54    | 54    | 61    | 58    | 70    | 73    | 75    | 52    | 61    | 51    | 50    | 48    | 51    | 50    | 66    | 56    | 55    | 53    | 45    | 36                | 45                | 56.8 |
|                                      | Minimum | 35    | 52    | 55    | 50    | 42    | 40    | 40    | 36    | 42    | 35    | 33    | 42    | 38    | 41    | 49    | 52    | 47    | 39    | 38    | 36    | 33    | 34    | 32    | 34    | 44    | 40    | 36    | 32    | 29    | 30    | 25                | 38.7              |      |
| Somerville.....                      | Maximum | 62    | 60    | 76    | 68    | 60    | 63    | 63    | 65    | 57    | 51    | 55    | 56    | 63    | 63    | 70    | 74    | 75    | 61    | 64    | 55    | 50    | 50    | 52    | 47    | 66    | 57    | 55    | 58    | 52    | 38    | 44                | 59.0              |      |
|                                      | Minimum | 33    | 52    | 59    | 48    | 50    | 39    | 51    | 34    | ..... | 35    | 33    | 40    | 36    | 31    | 50    | 50    | 57    | 39    | 44    | 36    | 30    | 34    | 32    | 25    | 44    | 40    | 31    | 27    | 30    | 27    | 25                | 38.7 <sup>a</sup> |      |
| South Orange.....                    | Maximum | 60    | 61    | 72    | 62    | 60    | 60    | 59    | 60    | 54    | 42    | 54    | 56    | ..... | 60    | 69    | 70    | 75    | 54    | 60    | 50    | 48    | 49    | 39    | 50    | 64    | 54    | 55    | 54    | 42    | 36    | 45                | 56.2 <sup>a</sup> |      |
|                                      | Minimum | 40    | 52    | 55    | 51    | 46    | 43    | 42    | 40    | 39    | 36    | 35    | 44    | 40    | 36    | 53    | 54    | 49    | 42    | 39    | 37    | 33    | 38    | 35    | 32    | 45    | 40    | 36    | 33    | 31    | 31    | 40                | 40.6              |      |
| New York, N. Y.....                  | Maximum | 60    | 61    | 72    | 62    | 59    | 59    | 61    | 60    | 59    | 43    | 52    | 55    | 60    | 57    | 70    | 76    | 52    | 60    | 49    | 49    | 49    | 50    | 51    | 66    | 53    | 53    | 51    | 43    | 39    | 43    | 56.3              |                   |      |
|                                      | Minimum | 48    | 56    | 61    | 53    | 48    | 46    | 50    | 44    | 43    | 35    | 34    | 43    | 46    | 46    | 51    | 58    | 49    | 43    | 39    | 37    | 37    | 43    | 37    | 41    | 45    | 41    | 41    | 36    | 31    | 33    |                   |                   |      |



UNN J

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXX.

NOVEMBER, 1925.

No. 11

### GENERAL SUMMARY.

General weather conditions during November were more nearly typical of the last of the autumn months than have prevailed during the past few years, although exception must be made of the most severe cold wave on record in November of last year. The amounts of sunshine, snow and warmth were slightly deficient, and high winds and rain were slightly in excess of normal. Nearly all the precipitation occurred in the first 16 days, there being but two moderate rains thereafter. Periods of cold and warm weather alternated with some regularity, lasting some 4 or 5 days consecutively.

The most noteworthy feature of the month was the high winds which immediately preceded and followed the unusually low pressure which passed over this section on the 13th, moving from the southwest to northeast. Considerable damage was caused in all parts of the State by minor injuries to insecure structures and branches of trees. The heaviest rain of the month attended this storm, in nearly all localities amounts exceeded an inch in 24 hours. Along shore gales occurred on ten or more days, and in the interior of the State the wind equalled or exceeded the rate of 40 miles per hour at least once per day on the 5 consecutive days starting with the 13th.

Storm warnings were displayed along the coast on the 3d, 5th, 7th, from the 12th to 17th inclusive, 21st and 27th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 32 stations, was 42.0°, which was 1.1° below normal. The highest temperature was 76° at Vineland on the 15th, and the lowest, 10°, at Charlotteburg on the 1st. The greatest daily range of temperature was 43° at Belleplain on the 15th. The highest monthly mean temperature was 45.8° at Cape May City, and the lowest, 37.8° at Layton.

The temperature departure from the normal for the year, 1925, to date, by sections, is; The Highlands, +0.2°; Red Sandstone Plain, +0.1°; Southern Interior, +1.1°; Sea Coast, +1.3°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 37 stations, was 3.40 inches, which was 0.33 inch above normal. The average total snowfall at eighteen selected stations was 0.7 inch, which was 0.5 inch below normal. The greatest monthly precipitation was 5.10 inches, at Dover, and the least, 2.48 inches at New Brunswick. The greatest amount of precipitation in any 24 consecutive hours was 2.86 inches at Charlotteburg on the 12-13th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 1 more than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands, +1.62 inches; Red Sandstone Plain, -2.32 inches; Southern Interior, -5.52 inches; Sea Coast, -7.65 inches.

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### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 16 miles per hour, which was 2 miles above normal. The highest velocity, sustained for 5 consecutive minutes, was 68 miles per hour from the south at Sandy Hook on the 16th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 14, which was 2 more than normal; partly cloudy, 8, or normal; cloudy, 8, or 2 less than normal.

The per cent of possible sunshine was 53, which was 5 per cent below normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 5.2 feet, and the highest stage, 10.0 feet on the 17th. At Trenton the mean daily stage was 2.8 feet, which was 1.0 foot above normal. The highest stage was 5.6 feet on the 18th.

The mean atmospheric pressure, reduced to sea level, was 30.14, which was 0.04 inch above normal. The highest reading was 30.67 at Sandy Hook on the 4th, and the lowest, 29.16 at Ridgefield on the 13th.

Dense fog was observed on the 27th. Solar halos were noted on the 5th and 25th, and lunar halos on the 1st, 4th, 6th, 26th, and 29th. Auroras were observed on the 8th and 9th.

### COMPARATIVE DATA FOR NOVEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 44.8        | 76      | 18     | 4.53          | 7.90     | 2.72  | .....      | .....         | .....  | .....                  |
| 1886..... | 44.5        | 73      | 17     | 4.49          | 6.24     | 3.45  | .....      | .....         | .....  | 6                      |
| 1887..... | 41.5        | 72      | 13     | 1.94          | 2.60     | 0.95  | .....      | .....         | .....  | 13                     |
| 1888..... | 45.8        | 77      | 8      | 3.97          | 5.41     | 2.66  | .....      | .....         | .....  | 10                     |
| 1889..... | 45.7        | 69      | 13     | 8.48          | 11.45    | 4.70  | .....      | .....         | .....  | 13                     |
| 1890..... | 43.8        | 74      | 11     | 0.82          | 1.70     | 0.38  | 13         | 12            | 5      | 8                      |
| 1891..... | 42.2        | 70      | 6      | 2.39          | 3.47     | 1.54  | 12         | 10            | 8      | 4                      |
| 1892..... | 41.9        | 71      | 12     | 7.29          | 9.49     | 4.74  | 8          | 9             | 13     | 11                     |
| 1893..... | 41.8        | 70      | 11     | 3.48          | 4.53     | 2.19  | 10         | 11            | 9      | 7                      |
| 1894..... | 40.3        | 76      | 11     | 3.34          | 5.12     | 1.77  | 13         | 7             | 10     | 10                     |
| 1895..... | 45.7        | 80      | 12     | 3.17          | 5.10     | 1.56  | 12         | 7             | 11     | 10                     |
| 1896..... | 48.2        | 78      | 12     | 3.05          | 5.68     | 1.37  | 9          | 9             | 12     | 8                      |
| 1897..... | 43.8        | 74      | 10     | 4.59          | 5.95     | 2.42  | 8          | 11            | 11     | 12                     |
| 1898..... | 42.4        | 70      | 11     | 6.76          | 9.07     | 3.83  | 10         | 9             | 11     | 14                     |
| 1899..... | 44.0        | 71      | 17     | 2.29          | 4.32     | 0.72  | 15         | 8             | 7      | 7                      |
| 1900..... | 47.5        | 79      | 15     | 3.43          | 5.54     | 1.82  | 9          | 10            | 11     | 9                      |
| 1901..... | 38.5        | 69      | 10     | 2.38          | 4.23     | 1.18  | 12         | 9             | 9      | 6                      |
| 1902..... | 49.3        | 80      | 20     | 2.20          | 4.17     | 0.87  | 10         | 11            | 9      | 8                      |
| 1903..... | 39.9        | 79      | 3      | 1.26          | 2.03     | 0.75  | 16         | 8             | 6      | 6                      |
| 1904..... | 40.2        | 69      | 6      | 2.18          | 3.40     | 1.30  | 12         | 10            | 8      | 6                      |
| 1905..... | 42.1        | 70      | 6      | 1.84          | 2.86     | 0.54  | 12         | 10            | 8      | 6                      |
| 1906..... | 43.6        | 70      | 8      | 1.61          | 2.52     | 1.06  | 16         | 7             | 7      | 6                      |
| 1907..... | 43.5        | 68      | 13     | 5.65          | 6.95     | 4.19  | 10         | 8             | 12     | 13                     |
| 1908..... | 43.1        | 72      | 2      | 0.96          | 1.29     | 0.35  | 14         | 8             | 8      | 4                      |
| 1909..... | 46.4        | 80      | 12     | 2.36          | 4.33     | 1.32  | 13         | 8             | 9      | 8                      |
| 1910..... | 40.4        | 71      | 13     | 3.79          | 5.73     | 1.63  | 5          | 13            | 12     | 9                      |
| 1911..... | 41.3        | 73      | 13     | 5.17          | 6.50     | 3.17  | 8          | 11            | 11     | 10                     |
| 1912..... | 45.3        | 76      | 11     | 3.43          | 8.12     | 2.02  | 15         | 8             | 7      | 6                      |
| 1913..... | 46.2        | 77      | 21     | 2.71          | 4.89     | 1.00  | 14         | 7             | 9      | 7                      |
| 1914..... | 43.3        | 80      | 6      | 2.60          | 4.81     | 1.21  | 16         | 8             | 6      | 6                      |
| 1915..... | 44.0        | 75      | 17     | 1.69          | 3.11     | 0.96  | 14         | 8             | 8      | 8                      |
| 1916..... | 43.3        | 75      | 12     | 2.11          | 3.81     | 0.80  | 16         | 5             | 9      | 8                      |
| 1917..... | 39.8        | 68      | 9      | 0.56          | 1.15     | 0.18  | 19         | 5             | 6      | 3                      |
| 1918..... | 43.9        | 71      | 12     | 1.87          | 3.05     | 0.49  | 14         | 6             | 10     | 7                      |
| 1919..... | 43.7        | 76      | 13     | 3.74          | 6.18     | 1.98  | 13         | 7             | 10     | 11                     |
| 1920..... | 43.0        | 74      | 12     | 4.41          | 7.90     | 2.14  | 9          | 6             | 15     | 10                     |
| 1921..... | 44.3        | 79      | 18     | 4.26          | 6.69     | 2.79  | 9          | 6             | 15     | 14                     |
| 1922..... | 44.3        | 73      | 13     | 0.91          | 1.56     | 0.49  | 13         | 8             | 9      | 6                      |
| 1923..... | 43.1        | 72      | 11     | 2.51          | 4.09     | 1.10  | 11         | 8             | 11     | 7                      |
| 1924..... | 42.9        | 77      | 1      | 2.03          | 3.23     | 1.17  | 14         | 8             | 8      | 5                      |
| 1925..... | 42.0        | 76      | 10     | 3.40          | 5.10     | 2.43  | 14         | 8             | 8      | 9                      |



## Climatological Data for November, 1925

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers                                                                                                                |                       |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |                                                                                                                          | Cloudy                |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Belvidere.....                              | Warren.....     | 289             | 34                      | 40.4                         | -0.7                      | 64      | 15   | 18     | 1    | 34                       | 4.07  | +0.83                     | 1.81                 | 1.8                       | 7                            | 19    | 5          | 6                            | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |                       |
| Charlotteburg.....                          | Passaic.....    | 719             | 33                      | 38.4                         | -1.7                      | 61      | 15†  | 10     | 1    | 39                       | 5.06  | +1.54                     | 2.86                 | 0.5                       | 10                           | 8     | 11         | 11                           |                                                                                                                          |                       |
| Culvers Lake†.....                          | Sussex.....     | 848             | 24                      |                              |                           |         |      | 15     | 30   |                          | 3.04  | +0.24                     | 0.94                 | 3.0                       | 7                            | 17    | 2          | 11                           |                                                                                                                          |                       |
| Dover.....                                  | Morris.....     | 600             | 41                      |                              |                           |         |      |        |      |                          | 5.10  | +1.46                     | 2.10                 | 0.5                       | 7                            | 1     | 21         | 8                            |                                                                                                                          |                       |
| Layton.....                                 | Sussex.....     | 480             | 24                      | 37.8                         | -1.0                      | 61      | 16†  | 12     | 1    | 39                       | 4.33  | +1.84                     | 1.41                 | T.                        | 8                            | 13    | 2          | 15                           | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |                       |
| Newton.....                                 | Sussex.....     | 769             | 42                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Phillipsburg.....                           | Warren.....     | 363             | 42                      | 41.5*                        | +0.3                      | 67      | 15   | 23     | 1    | 33                       | 2.89  | -0.31                     | 0.90                 | 1.2                       | 8                            | 15    | 7          | 8                            |                                                                                                                          |                       |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 39.6*                        | -1.5                      | 63      | 22   | 13     | 1    | 37                       | 3.02  | -0.23                     | 0.82                 | T.                        | 7                            | 12    | 9          | 9                            |                                                                                                                          |                       |
| Means and extremes.....                     |                 |                 |                         | 39.5                         | -0.9                      | 67      | 15   | 10     | 1    | 39                       | 3.91  | +0.76                     | 2.86                 | 1.0                       | 8                            | 12    | 8          | 10                           | w.                                                                                                                       |                       |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Bergen Point††.....                         | Hudson.....     | 37              | 28                      | 43.4†                        | -0.3                      | 67      | 8    | 25     | 29†  | 24                       | 2.85  | -0.42                     | 1.44                 | 1.0                       | 11                           | 4     | 16         | 10                           | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |                       |
| Boonton.....                                | Morris.....     | 400             | 35                      | 38.4                         | -3.0                      | 64      | 15   | 16     | 1    | 37                       | 4.15  | +0.58                     | 2.02                 |                           | 7                            | 21    | 1          | 8                            |                                                                                                                          |                       |
| Chatham.....                                | Morris.....     | 185             | 21                      |                              |                           |         |      |        |      |                          | 4.25  | +1.35                     | 1.67                 |                           | 7                            | 17    | 11         | 2                            |                                                                                                                          |                       |
| Elizabeth.....                              | Union.....      | 45              | 46                      | 42.8                         | -0.7                      | 68      | 8    | 22     | 26   | 31                       | 3.33  | +0.08                     | 1.39                 | 1.0                       | 11                           | 16    | 6          | 8                            |                                                                                                                          |                       |
| Flemington.....                             | Hunterdon.....  | 140             | 39                      | 42.0                         | -0.9                      | 68      | 15   | 23     | 25†  | 36                       | 2.87  | -0.25                     | 1.28                 | 1.0                       | 11                           | 18    | 5          | 7                            | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |                       |
| Highwood††.....                             | Bergen.....     | 90              | 37                      | 40.6                         | -1.4                      | 64      | 8    | 19     | 1    | 29                       | 4.17  | +0.67                     | 2.10                 | 0.1                       | 8                            | 13    | 5          | 12                           |                                                                                                                          |                       |
| Jersey City.....                            | Hudson.....     | 10              | 27                      | 43.9                         | -0.1                      | 66      | 8    | 24     | 29   | 25                       | 3.44  | +0.25                     | 1.68                 | 1.0                       | 10                           | 9     | 12         | 9                            |                                                                                                                          |                       |
| Lambertville.....                           | Hunterdon.....  | 370             | 38                      | 40.6                         | -2.6                      | 64      | 15   | 22     | 29   | 29                       | 3.71  | +0.50                     | 1.99                 | 2.8                       | 10                           | 15    | 7          | 8                            |                                                                                                                          |                       |
| Little Falls.....                           | Passaic.....    | 180             | 22                      | 39.9                         | -2.3                      | 65      | 8†   | 19     | 1    | 38                       | 4.66  | +1.76                     | 2.39                 | 2.0                       | 11                           | 14    | 6          | 10                           | Passaic Consolid. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                     |                       |
| New Brunswick.....                          | Middlesex.....  | 110             | 72                      | 42.3                         | -1.1                      | 67      | 8†   | 20     | 26   | 34                       | 2.48  | -1.00                     | 1.11                 | 1.0                       | 8                            | 17    | 8          | 5                            |                                                                                                                          |                       |
| New Milford††.....                          | Bergen.....     | 9               | 5                       |                              |                           |         |      |        |      |                          | 3.85  |                           | 1.58                 |                           | 8                            |       |            |                              |                                                                                                                          |                       |
| Paterson.....                               | Passaic.....    | 80              | 54                      | 42.6                         | -0.9                      | 63      | 6†   | 24     | 1†   | 29                       | 3.51  | +0.34                     | 1.70                 | T.                        | 8                            | 16    | 4          | 10                           |                                                                                                                          |                       |
| Plainfield.....                             | Union.....      | 120             | 37                      | 40.2                         | -2.3                      | 66      | 8    | 18     | 26   | 35                       | 3.34  | -0.03                     | 1.48                 | 1.7                       | 10                           | 11    | 12         | 7                            | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Medder.<br>Hackensack Water Co.                     |                       |
| Ridgefield††.....                           | Bergen.....     | 80              | 7                       | 41.4                         |                           | 66      | 8    | 23     | 1†   | 28                       | 3.12  |                           | 1.47                 | 0.5                       | 10                           | 8     | 13         | 9                            |                                                                                                                          |                       |
| Somerville.....                             | Somerset.....   | 70              | 42                      | 41.4                         | -1.0                      | 67      | 15   | 19     | 26   | 37                       | 3.64  | +0.50                     | 1.72                 | 2.0                       | 9                            | 17    | 6          | 7                            |                                                                                                                          |                       |
| South Orange.....                           | Essex.....      | 200             | 55                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 5                       |                              |                           |         |      |        |      |                          | 2.94  |                           | 1.48                 |                           | 6                            |       |            |                              |                                                                                                                          |                       |
| New York, N. Y.....                         |                 | 365             | 55                      | 43.7                         | -0.5                      | 66      | 8    | 24     | 29   | 24                       | 2.56  | -0.88                     | 1.21                 | 0.2                       | 11                           | 7     | 13         | 10                           | nw.                                                                                                                      | U. S. Weather Bureau. |
| Means and extremes.....                     |                 |                 |                         | 41.5                         | -1.4                      | 68      | 8†   | 16     | 1    | 38                       | 3.48  | +0.33                     | 2.39                 | 1.2                       | 9                            | 14    | 8          | 8                            | nw.                                                                                                                      |                       |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Belleplain.....                             | Cape May.....   | 30              | 31                      | 42.0                         | -2.5                      | 70      | 15   | 14     | 25   | 43                       | 3.24  | +0.63                     | 1.44                 | T.                        | 10                           | 16    | 8          | 6                            | Thomas J. Durell.<br>Harold K. Tryon.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |                       |
| Bridgeton.....                              | Cumberland..... | 90              | 44                      | 43.0                         | -2.6                      |         |      | 22     | 29   | 26                       | 3.24  | +0.44                     | 1.44                 | 0.3                       | 11                           | 13    | 8          | 9                            |                                                                                                                          |                       |
| Burlington.....                             | Burlington..... | 12              | 59                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Clayton.....                                | Gloucester..... | 130             | 29                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Freehold††.....                             | Monmouth.....   | 180             | 25                      |                              |                           |         |      |        |      |                          | §     |                           |                      |                           |                              |       |            |                              | County Agr'l Agent.<br>Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.                               |                       |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Hightstown.....                             | Mercer.....     | 120             | 33                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 42.5                         | -0.8                      | 68      | 8†   | 17     | 26   | 38                       | §     |                           | 0.59                 |                           | 12                           | 21    | 3          | 6                            |                                                                                                                          |                       |
| Indian Mills††.....                         | Burlington..... | 76              | 36                      | 42.6                         | -0.3                      | 70      | 15   | 18     | 25   | 40                       | 3.67  | +0.59                     | 1.70                 | 1.0                       | 9                            | 12    | 7          | 11                           | James M. Armstrong.<br>R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.               |                       |
| Lakewood.....                               | Ocean.....      | 54              | 21                      | 41.2                         | -1.6                      | 68      | 8    | 21     | 10†  | 35                       | 3.65  | +1.19                     | 2.13                 | T.                        | 9                            | 15    | 5          | 10                           |                                                                                                                          |                       |
| Moorestown.....                             | Burlington..... | 75              | 62                      | 43.6                         | +0.4                      | 65      | 8    | 23     | 29   | 37                       | 3.03  | -0.22                     | 1.43                 | 0.5                       | 8                            | 15    | 6          | 9                            |                                                                                                                          |                       |
| Northfield††.....                           | Atlantic.....   | 25              | 18                      |                              |                           |         |      |        |      |                          | 2.84  | +0.46                     | 1.21                 | 0.2                       | 9                            |       |            |                              |                                                                                                                          |                       |
| Pleasantville††.....                        | Atlantic.....   | 26              | 27                      | 42.4                         |                           | 67      | 13   | 19     | 29   | 33                       | 3.00  | +0.28                     | 1.41                 |                           | 10                           | 13    | 10         | 7                            | nw.                                                                                                                      |                       |
| Runyon††.....                               | Middlesex.....  | 18              |                         |                              |                           |         |      | 13     | 26   |                          | 3.10  |                           | 1.39                 |                           | 9                            | 19    | 9          | 2                            | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes<br>U. S. Weather Bureau.      |                       |
| Trenton.....                                | Mercer.....     | 190             | 53                      | 43.0                         | -1.4                      | 68      | 15   | 25     | 29   | 27                       | 2.63  | -0.80                     | 1.19                 | 1.2                       | 9                            | 7     | 13         | 10                           |                                                                                                                          |                       |
| Tuckerton.....                              | Ocean.....      | 23              | 32                      | 43.2                         | -0.9                      | 66      | 8    | 21     | 26†  | 31                       | 3.54  | +0.46                     | 1.57                 | T.                        | 11                           | 15    | 8          | 7                            |                                                                                                                          |                       |
| Vineland.....                               | Cumberland..... | 109             | 56                      | 44.8                         | +0.7                      | 76      | 15   | 23     | 25†  | 39                       | 3.46  | +0.35                     | 1.60                 | T.                        | 10                           | 18    | 4          | 8                            |                                                                                                                          |                       |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 45.4                         | +1.6                      | 68      | 15   | 27     | 29   | 25                       | 2.97  | -0.09                     | 1.45                 | 0.2                       | 8                            | 11    | 8          | 11                           | nw.                                                                                                                      |                       |
| Means and extremes.....                     |                 |                 |                         | 42.8                         | -0.9                      | 76      | 15   | 13     | 26   | 43                       | 3.22  | +0.34                     | 2.13                 | 0.4                       | 10                           | 15    | 7          | 8                            | nw.                                                                                                                      |                       |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Asbury Park.....                            | Monmouth.....   | 22              | 36                      | 43.2†                        | -1.6                      | 64      | 13   | 25     | 26†  |                          | 2.95  | +0.03                     | 1.65                 | 0.5                       | 10                           | 16    | 10         | 4                            | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |                       |
| Atlantic City.....                          | Atlantic.....   | 16              | 51                      | 45.4                         | -0.2                      | 65      | 13   | 25     | 24   | 22                       | 2.71  | -0.52                     | 1.03                 | T.                        | 9                            | 13    | 9          | 8                            |                                                                                                                          |                       |
| Cape May City.....                          | Cape May.....   | 17              | 41                      | 45.8                         | -1.6                      | 63      | 13   | 25     | 29   | 18                       | 2.52  | -0.70                     | 1.05                 | 0                         | 8                            | 13    | 4          | 13                           |                                                                                                                          |                       |
| Long Branch.....                            | Monmouth.....   | 25              | 18                      |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                          |                       |
| Sandy Hook.....                             | Monmouth.....   | 22              | 27                      | 44.0                         | -0.6                      | 65      | 8    | 27     | 29   | 22                       | 3.01  | -0.18                     | 1.80                 | T.                        | 10                           | 9     | 11         | 10                           | sw.                                                                                                                      |                       |
| Means and extremes.....                     |                 |                 |                         | 44.6                         | -1.0                      | 65      | 8†   | 25     | 24†  | 22                       | 3.80  | -0.34                     | 1.80                 | 0.1                       | 9                            | 13    | 8          | 9                            | nw.                                                                                                                      |                       |
| For the State.....                          |                 |                 |                         | 42.0                         | -1.1                      | 76      | 15   | 10     | 1    | 43                       | 3.40  | +0.33                     | 2.86                 | 0.7                       | 9                            | 14    | 8          | 8                            | nw.                                                                                                                      |                       |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc. T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere.



## Daily Precipitation for November, 1925

| Stations                            | Drainage Basin  | Day of month |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     | Total |      |
|-------------------------------------|-----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|--------|------|----|-----|------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-------|------|
|                                     |                 | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10 | 11 | 12     | 13   | 14 | 15  | 16   | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26  | 27  | 28  | 29  | 30  | 31  |       |      |
| The Highlands and Kittatinny Valley |                 |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Belvidere.....                      | Delaware.....   |              |     |     |     |     | .31 |     | .50 |     |    |    | .60    | 1.21 |    |     | .69  |    |    |    |    |    |    |    |    |    | .16 |     | .60 |     |     |     | 4.07  |      |
| Charlotteburg.....                  | Passaic.....    |              |     |     |     |     | .22 |     | .32 |     |    |    | * 2.86 |      |    |     | .98  |    |    |    |    |    |    |    |    |    | .06 |     | .62 |     |     |     | 5.06  |      |
| Culvers Lake.....                   | Delaware.....   |              |     |     |     |     | .18 |     | .55 |     |    |    | .02    | .92  |    |     | .70  |    |    |    |    |    |    |    |    |    | T.  | T.  | .65 | .02 |     |     | 3.04  |      |
| Dover.....                          | Passaic.....    |              |     |     |     |     | .70 |     | .39 |     |    |    | * 2.10 |      |    |     | 1.05 |    |    |    |    |    |    |    |    |    | .05 |     | .35 |     |     |     | 5.10  |      |
| Layton.....                         | Delaware.....   |              |     |     |     |     | .24 |     | .88 |     |    |    | .06    | 1.26 |    |     | 1.62 |    |    |    |    |    |    |    |    |    | .01 |     | .46 | .01 |     |     | 4.33  |      |
| Newton.....                         | Delaware.....   |              |     |     |     |     |     |     |     |     |    |    | .68    | .22  |    | .04 | .44  |    |    |    |    |    |    |    |    |    | .12 |     | .49 |     |     |     | 2.89  |      |
| Phillipsburg.....                   | do.....         |              |     |     | .06 |     | .32 | T.  | .52 | T.  |    |    | .04    | .78  |    |     | .74  |    |    |    |    |    |    |    |    |    | T.  |     | .64 | .07 |     |     | 8.02  |      |
| Sussex.....                         | Hudson.....     |              |     |     |     |     | .26 |     | .49 |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| The Red Sandstone Plain.            |                 |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Bergen Point**.....                 | Coast.....      |              | .02 |     |     | .01 | .24 | .02 | .17 |     |    |    | 1.10   | .34  |    | .03 | .27  |    |    |    |    |    |    |    |    |    |     | .12 |     | .53 | T.  |     | 2.85  |      |
| Boonton   .....                     | Passaic.....    |              |     |     |     |     | .29 |     | T.  | .20 |    |    |        | 2.02 |    |     | .82  |    |    |    |    |    |    |    |    |    |     | .04 | .43 | .35 |     |     | 4.15  |      |
| Chatham  .....                      | do.....         |              |     |     |     |     | .32 |     |     | .25 |    |    |        | 1.67 |    |     | .86  |    |    |    |    |    |    |    |    |    |     | .17 | .62 | .36 |     |     | 4.25  |      |
| Elizabeth.....                      | Coast.....      |              | .03 |     |     |     | .24 |     | .21 |     |    |    | *      | 1.39 |    |     | .36  |    |    |    |    |    |    |    |    |    |     | .50 | .60 |     |     |     | 3.33  |      |
| Flemington.....                     | Raritan.....    |              | .01 | .03 |     |     | .31 |     | .25 |     |    |    | .07    | 1.21 |    | T.  | .42  |    |    |    |    |    |    |    |    |    | .12 | .06 | .37 | .02 |     |     | 2.87  |      |
| Highwood.....                       | Hackensack..... |              | T.  | .03 |     |     | .57 | T.  | .24 |     |    |    | .71    | 1.39 |    | T.  | .60  |    |    |    |    |    |    |    |    |    |     | .01 | .60 | .05 |     |     | 4.17  |      |
| Jersey City.....                    | Coast.....      |              | T.  | .03 |     |     | .24 | T.  | .22 |     |    |    | .65    | 1.03 |    | T.  | .42  |    |    |    |    |    |    |    |    |    |     | .16 |     | .69 |     |     | 3.44  |      |
| Lambertville.....                   | Delaware.....   |              | .06 | .08 |     |     | .22 |     | .21 |     |    |    | .51    | 1.48 |    | T.  | .62  |    |    |    |    |    |    |    |    |    |     | .15 | .02 | .36 |     |     | 3.71  |      |
| Little Falls.    .....              | Passaic.....    |              |     | T.  |     |     | .32 |     | T.  | .15 |    |    |        | 2.39 |    |     | .97  |    |    |    |    |    |    |    |    |    |     |     | .25 | .45 | .13 |     | 4.66  |      |
| New Brunswick.....                  | Raritan.....    |              | T.  | .04 |     |     | .18 |     | .24 |     |    |    | .07    | 1.11 |    |     | .36  |    |    |    |    |    |    |    |    |    | .12 | T.  | .36 |     |     |     | 2.48  |      |
| New Milford.**.....                 | Hackensack..... |              |     |     |     | .03 | .31 |     | .15 |     |    |    | 1.05   | .53  |    |     | .77  |    |    |    |    |    |    |    |    |    |     | .03 | .48 |     |     |     | 3.35  |      |
| Paterson.....                       | Passaic.....    |              |     |     |     |     | .27 |     | .10 |     |    |    | .60    | 1.10 |    | T.  | .80  |    |    |    |    |    |    |    |    |    |     | .03 | .59 | .02 |     |     | 3.51  |      |
| Plainfield.....                     | Raritan.....    |              | .03 | T.  |     |     | .24 | T.  | .36 |     |    |    | .60    | .88  |    |     | .55  |    |    |    |    |    |    |    |    |    |     | .15 |     | .53 |     |     | 3.34  |      |
| Ridgefield.....                     | Hackensack..... |              | T.  | .02 |     |     | .31 |     | .15 |     |    |    | *      | 1.47 |    |     | .47  |    |    |    |    |    |    |    |    |    |     | .20 | .50 |     |     |     | 3.72  |      |
| Somerville.....                     | Raritan.....    |              |     |     |     |     | .31 |     | .26 |     |    |    | .08    | 1.64 |    |     | .64  |    |    |    |    |    |    |    |    |    |     | .10 | .04 | .45 | .02 |     | 3.54  |      |
| South Orange.....                   | Rahway.....     |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Woodcliff Lake**.....               | Hackensack..... |              |     |     |     | .08 | .14 |     | .10 |     |    |    | .90    | .58  |    |     | .72  |    |    |    |    |    |    |    |    |    |     |     |     | .42 |     |     | 2.94  |      |
| New York, N. Y***.....              | Coast.....      |              | .01 | .01 |     | .02 | .24 | T.  | .14 |     |    |    | .85    | .36  |    | .01 | .21  |    |    |    |    |    |    |    |    |    |     | .15 |     | .56 |     |     | 2.56  |      |
| The Southern Interior.              |                 |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Belleplain.....                     | Tuckahoe.....   |              | .49 | .26 | .12 |     | .05 |     | .44 |     |    |    | .30    | 1.14 |    |     | .21  |    |    |    |    |    |    |    |    |    |     | T.  |     | .20 | .03 |     | 3.24  |      |
| Bridgeton.....                      | Coast.....      |              | .42 | .12 |     |     | .14 | T.  | .41 |     |    |    | .29    | 1.15 |    |     | .48  |    |    |    |    |    |    |    |    |    |     |     | .04 |     | .18 |     | .01   | 3.24 |
| Burlington.....                     | Delaware.....   |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Clayton.....                        | Delaware.....   |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Freehold   .....                    | Coast.....      |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Hammononton.....                    | Mullica.....    |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Hightstown.....                     | Raritan.....    |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Imlaystown.....                     | Delaware.....   |              | \$  |     |     |     | .20 |     | .30 | .09 |    |    | .09    | .50  |    |     | .26  |    |    |    |    |    |    |    |    |    |     | .22 | .03 | .23 | .02 |     |       | \$   |
| Indian Mills.....                   | Mullica.....    |              | .25 | .27 |     |     | .11 |     | .47 |     |    |    | .20    | 1.50 |    |     | .48  |    |    |    |    |    |    |    |    |    |     | .12 | .27 | .31 |     | T.  | 3.67  |      |
| Lakewood.....                       | Metedconk.....  |              | .10 | .23 |     |     | .14 |     | .38 |     |    |    | .38    | 1.75 |    |     | .18  |    |    |    |    |    |    |    |    |    |     | .14 | .31 |     |     | T.  | 3.65  |      |
| Moorestown.....                     | Delaware.....   |              | .17 |     |     |     | .13 |     | .41 |     |    |    | .40    | 1.03 |    |     | .53  |    |    |    |    |    |    |    |    |    |     | .06 | .30 |     |     |     | 3.03  |      |
| Northfield.....                     | Coast.....      |              | .41 | .39 |     |     | .14 |     | .38 |     |    |    | .20    | 1.01 |    |     | .12  |    |    |    |    |    |    |    |    |    |     |     |     | .17 |     | .02 | 2.84  |      |
| Pleasantville   .....               | Coast.....      |              |     | .70 | T.  |     | .16 | T.  |     | .43 |    |    |        | 1.41 |    |     | .02  |    |    |    |    |    |    |    |    |    |     |     |     | .24 |     | .04 | 3.00  |      |
| Runyon.....                         | Coast.....      |              | .06 | .11 |     |     | .26 |     | .29 |     |    |    | .06    | 1.33 |    |     | .39  |    |    |    |    |    |    |    |    |    |     | .16 |     | .44 |     |     | 3.10  |      |
| Trenton***.....                     | Delaware.....   |              | .07 | T.  |     | T.  | .20 | T.  | .27 |     |    |    | .91    | .28  |    | .06 | .37  |    |    |    |    |    |    |    |    |    |     | T.  |     | .31 |     | T.  | 2.63  |      |
| Tuckerton.....                      | Coast.....      |              | .28 | .50 |     |     | .23 |     | .24 | .10 |    |    | .27    | 1.30 |    |     | .30  |    |    |    |    |    |    |    |    |    |     | .02 |     | .25 | .05 |     | T.    | 3.64 |
| Vineland.....                       | Maurice.....    |              | .44 | .22 |     |     | .20 |     | .35 |     |    |    | .35    | 1.25 |    |     | .39  |    |    |    |    |    |    |    |    |    |     | .05 | .15 | .06 |     |     | T.    | 3.46 |
| Phila., Pa***.....                  | Delaware.....   |              | .16 | T.  |     | T.  | .12 | T.  | .29 |     |    |    | 1.45   |      |    | .12 | .54  |    |    |    |    |    |    |    |    |    |     |     | .05 | T.  | .24 |     | T.    | 2.97 |
| The Sea Coast.                      |                 |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Asbury Park.....                    | Coast.....      |              | .14 | .16 |     |     | .19 | .03 | .24 |     |    |    | .64    | 1.01 |    |     | .24  |    |    |    |    |    |    |    |    |    |     |     | .05 |     | .35 |     |       | 2.95 |
| Atlantic City***.....               | do.....         |              | .60 | .09 |     |     | .24 |     | .31 |     |    |    | .99    | .04  |    | T.  | .25  |    |    |    |    |    |    |    |    |    |     |     | T.  |     | .18 |     | .01   | 2.71 |
| Cape May City.....                  | do.....         |              | .51 | .12 |     |     | .15 |     | .41 |     |    |    | .22    | .83  |    |     | .16  |    |    |    |    |    |    |    |    |    |     |     |     |     | .12 |     |       | 2.52 |
| Long Branch**.....                  | do.....         |              |     |     |     |     |     |     |     |     |    |    |        |      |    |     |      |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |       |      |
| Sandy Hook***.....                  | do.....         |              | .08 | .02 |     | .01 | .17 | T.  | .26 |     |    |    | 1.16   | .64  |    | T.  | .22  |    |    |    |    |    |    |    |    |    |     |     | .11 |     | .34 |     |       | 3.01 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

### MISCELLANEOUS DATA

[illegible]



## Daily Temperatures for November, 1925

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30   | 31   | Mean |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |
| Belvidere.....                       | Maximum | 52 | 47 | 51 | 55 | 51 | 60 | 52 | 62 | 47 | 49 | 51 | 50 | 60 | 57 | 64 | 62 | 46 | 51 | 46 | 54 | 55 | 62 | 51 | 38 | 33 | 44 | 48 | 48 | 37   | 37   | 50.7 |
|                                      | Minimum | 18 | 25 | 36 | 27 | 27 | 45 | 28 | 46 | 32 | 25 | 25 | 29 | 48 | 48 | 32 | 37 | 36 | 25 | 26 | 26 | 31 | 28 | 31 | 25 | 23 | 25 | 28 | 34 | 19   | 20   | 30.2 |
| Charlotteburg.....                   | Maximum | 49 | 45 | 48 | 54 | 54 | 60 | 60 | 50 | 48 | 43 | 52 | 54 | 59 | 57 | 61 | 48 | 48 | 54 | 51 | 52 | 58 | 61 | 45 | 33 | 35 | 44 | 50 | 37 | 36   | 49.5 |      |
|                                      | Minimum | 10 | 18 | 32 | 28 | 21 | 35 | 26 | 35 | 28 | 22 | 18 | 22 | 49 | 46 | 34 | 38 | 34 | 22 | 26 | 24 | 34 | 31 | 21 | 20 | 26 | 36 | 24 | 13 | 18   | 27.3 |      |
| Dover.....                           | Maximum | 48 | 46 | 49 | 55 | 50 | 48 | 52 | 44 | 48 | 51 | 46 | 46 | 58 | 56 | 60 | 61 | 42 | 52 | 47 | 53 | 57 | 61 | 49 | 35 | 34 | 41 | 47 | 47 | 31   | 35   | 48.4 |
|                                      | Minimum | 12 | 21 | 30 | 19 | 22 | 36 | 24 | 43 | 21 | 26 | 20 | 25 | 42 | 48 | 29 | 38 | 36 | 28 | 25 | 25 | 35 | 22 | 28 | 25 | 24 | 26 | 26 | 31 | 15   | 15   | 27.2 |
| Newton.....                          | Maximum | 53 | 50 | 50 | 50 | 53 | 64 | 50 | 50 | 50 | 54 | 59 | 64 | 58 | 67 | 65 | 45 | 47 | 47 | 55 | 57 | 62 | 55 | 41 | 37 | 44 | 49 | 53 | 32 | 34   | 51.4 |      |
|                                      | Minimum | 23 | 28 | 39 | 31 | 32 | 39 | 32 | 30 | 28 | 28 | 31 | 44 | 49 | 35 | 39 | 37 | 31 | 29 | 30 | 33 | 29 | 31 | 26 | 24 | 27 | 38 | 31 | 24 | 24   | 31.6 |      |
| Phillipsburg.....                    | Maximum | 50 | 49 | 49 | 52 | 51 | 61 | 50 | 47 | 45 | 53 | 49 | 57 | 57 | 61 | 62 | 46 | 55 | 49 | 53 | 59 | 63 | 52 | 42 | 42 | 42 | 49 | 48 | 35 | 37   | 50.8 |      |
|                                      | Minimum | 13 | 21 | 32 | 24 | 23 | 32 | 27 | 40 | 28 | 20 | 21 | 26 | 47 | 48 | 31 | 37 | 37 | 27 | 26 | 26 | 36 | 28 | 29 | 24 | 23 | 28 | 28 | 33 | 16   | 18   | 28.3 |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |
| Bergen Point.....                    | Maximum | 51 | 46 | 46 | 49 | 53 | 62 | 61 | 67 | 47 | 46 | 56 | 54 | 62 | 60 | 63 | 46 | 53 | 49 | 55 | 55 | 39 | 42 | 55 | 53 | 35 | 38 | 35 | 38 | 51.7 |      |      |
|                                      | Minimum | 28 | 32 | 40 | 36 | 32 | 46 | 46 | 46 | 36 | 30 | 32 | 42 | 50 | 38 | 40 | 38 | 33 | 33 | 35 | 37 | 34 | 27 | 28 | 29 | 29 | 35 | 35 | 25 | 25   | 35.1 |      |
| Boonton§§.....                       | Maximum | 53 | 46 | 51 | 55 | 51 | 61 | 61 | 63 | 43 | 46 | 52 | 56 | 61 | 58 | 64 | 47 | 44 | 52 | 45 | 54 | 55 | 58 | 42 | 31 | 36 | 45 | 52 | 39 | 32   | 35   | 49.9 |
|                                      | Minimum | 16 | 21 | 26 | 32 | 25 | 29 | 28 | 34 | 30 | 21 | 20 | 23 | 27 | 49 | 28 | 31 | 37 | 28 | 24 | 28 | 31 | 27 | 27 | 19 | 23 | 25 | 32 | 20 | 19   | 26.8 |      |
| Elizabeth.....                       | Maximum | 52 | 47 | 51 | 50 | 52 | 64 | 56 | 68 | 49 | 48 | 55 | 53 | 63 | 60 | 59 | 63 | 47 | 51 | 48 | 56 | 55 | 62 | 56 | 38 | 40 | 44 | 54 | 54 | 39   | 36   | 52.3 |
|                                      | Minimum | 24 | 36 | 40 | 39 | 30 | 44 | 33 | 49 | 29 | 27 | 31 | 53 | 49 | 33 | 42 | 36 | 28 | 29 | 32 | 34 | 31 | 36 | 25 | 25 | 22 | 31 | 34 | 23 | 25   | 33.2 |      |
| Flemington.....                      | Maximum | 54 | 47 | 50 | 49 | 54 | 63 | 53 | 64 | 48 | 50 | 54 | 50 | 61 | 58 | 68 | 64 | 48 | 54 | 48 | 56 | 56 | 58 | 54 | 41 | 36 | 45 | 49 | 50 | 37   | 36   | 51.8 |
|                                      | Minimum | 25 | 27 | 39 | 35 | 29 | 45 | 31 | 48 | 35 | 26 | 26 | 30 | 48 | 50 | 32 | 41 | 38 | 28 | 27 | 29 | 33 | 29 | 35 | 25 | 23 | 28 | 35 | 23 | 23   | 32.2 |      |
| Highwood.....                        | Maximum | 48 | 47 | 51 | 51 | 50 | 60 | 52 | 64 | 44 | 46 | 51 | 53 | 61 | 59 | 59 | 57 | 45 | 51 | 48 | 54 | 54 | 57 | 46 | 37 | 38 | 43 | 53 | 52 | 43   | 34   | 50.8 |
|                                      | Minimum | 19 | 24 | 38 | 34 | 25 | 40 | 30 | 43 | 31 | 23 | 25 | 28 | 52 | 50 | 32 | 38 | 37 | 30 | 30 | 28 | 28 | 31 | 31 | 24 | 24 | 23 | 30 | 32 | 21   | 22   | 30.8 |
| Jersey City.....                     | Maximum | 50 | 48 | 51 | 51 | 51 | 62 | 53 | 66 | 45 | 47 | 53 | 53 | 60 | 59 | 61 | 62 | 46 | 51 | 48 | 56 | 54 | 58 | 45 | 37 | 38 | 43 | 54 | 45 | 33   | 38   | 50.6 |
|                                      | Minimum | 33 | 38 | 42 | 40 | 38 | 47 | 46 | 44 | 34 | 32 | 37 | 41 | 48 | 48 | 42 | 37 | 34 | 38 | 39 | 38 | 39 | 34 | 27 | 27 | 30 | 38 | 36 | 24 | 27   | 37.2 |      |
| Lambertville.....                    | Maximum | 47 | 43 | 46 | 47 | 51 | 59 | 51 | 63 | 44 | 44 | 50 | 52 | 60 | 55 | 64 | 62 | 43 | 47 | 46 | 53 | 51 | 55 | 46 | 36 | 37 | 52 | 52 | 32 | 35   | 49.1 |      |
|                                      | Minimum | 28 | 30 | 36 | 34 | 31 | 36 | 34 | 44 | 33 | 27 | 28 | 34 | 50 | 43 | 35 | 39 | 36 | 28 | 32 | 35 | 33 | 31 | 30 | 23 | 24 | 25 | 27 | 30 | 22   | 23   | 32.1 |
| Little Falls§§.....                  | Maximum | 57 | 46 | 45 | 52 | 50 | 63 | 64 | 65 | 44 | 47 | 59 | 60 | 65 | 58 | 48 | 45 | 52 | 46 | 55 | 52 | 61 | 43 | 36 | 38 | 41 | 54 | 45 | 31 | 34   | 50.3 |      |
|                                      | Minimum | 19 | 24 | 29 | 34 | 25 | 32 | 29 | 33 | 30 | 23 | 23 | 28 | 31 | 50 | 32 | 40 | 37 | 31 | 27 | 28 | 31 | 29 | 36 | 26 | 27 | 28 | 34 | 21 | 21   | 29.5 |      |
| New Brunswick.....                   | Maximum | 51 | 46 | 50 | 49 | 52 | 61 | 54 | 67 | 48 | 45 | 55 | 56 | 62 | 58 | 67 | 65 | 46 | 49 | 48 | 55 | 53 | 62 | 56 | 36 | 37 | 43 | 56 | 55 | 36   | 34   | 51.7 |
|                                      | Minimum | 26 | 28 | 40 | 39 | 32 | 44 | 34 | 47 | 34 | 25 | 27 | 30 | 50 | 50 | 33 | 40 | 36 | 28 | 30 | 32 | 33 | 33 | 35 | 24 | 25 | 20 | 29 | 36 | 24   | 24   | 32.9 |
| Paterson.....                        | Maximum | 50 | 47 | 50 | 52 | 52 | 63 | 51 | 63 | 50 | 47 | 54 | 49 | 62 | 60 | 59 | 56 | 46 | 52 | 48 | 55 | 56 | 60 | 57 | 38 | 39 | 44 | 51 | 52 | 35   | 35   | 51.1 |
|                                      | Minimum | 24 | 29 | 39 | 36 | 32 | 46 | 36 | 50 | 33 | 29 | 28 | 32 | 48 | 51 | 36 | 41 | 38 | 32 | 32 | 35 | 36 | 31 | 33 | 28 | 26 | 30 | 32 | 34 | 24   | 24   | 34.2 |
| Plainfield.....                      | Maximum | 51 | 46 | 51 | 50 | 52 | 62 | 61 | 66 | 45 | 47 | 54 | 53 | 61 | 59 | 65 | 63 | 46 | 51 | 48 | 56 | 56 | 61 | 48 | 38 | 38 | 43 | 54 | 45 | 33   | 38   | 51.4 |
|                                      | Minimum | 20 | 25 | 38 | 36 | 27 | 40 | 43 | 28 | 22 | 24 | 28 | 28 | 47 | 47 | 30 | 34 | 36 | 28 | 24 | 28 | 28 | 28 | 36 | 25 | 25 | 18 | 30 | 34 | 22   | 22   | 29.1 |
| Ridgefield.....                      | Maximum | 51 | 47 | 51 | 51 | 51 | 63 | 55 | 66 | 44 | 47 | 52 | 53 | 62 | 60 | 62 | 61 | 44 | 52 | 47 | 55 | 56 | 57 | 42 | 36 | 38 | 44 | 54 | 43 | 32   | 37   | 50.4 |
|                                      | Minimum | 23 | 27 | 36 | 33 | 30 | 42 | 36 | 42 | 30 | 28 | 28 | 31 | 51 | 44 | 38 | 37 | 36 | 31 | 33 | 31 | 33 | 34 | 28 | 26 | 26 | 26 | 36 | 28 | 23   | 23   | 32.3 |
| Somerville.....                      | Maximum | 52 | 47 | 51 | 50 | 53 | 61 | 55 | 65 | 49 | 46 | 50 | 53 | 63 | 59 | 67 | 65 | 46 | 51 | 50 | 55 | 54 | 61 | 54 | 38 | 36 | 45 | 53 | 51 | 39   | 36   | 51.8 |
|                                      | Minimum | 23 | 25 | 39 | 36 | 26 | 45 | 29 | 48 | 32 | 21 | 24 | 28 | 50 | 30 | 41 | 38 | 25 | 27 | 28 | 28 | 28 | 27 | 35 | 24 | 23 | 19 | 28 | 35 | 23   | 23   | 31.0 |
| South Orange.....                    | Maximum | 50 | 49 | 50 | 51 | 50 | 63 | 53 | 66 | 44 | 47 | 52 | 53 | 59 | 58 | 59 | 61 | 46 | 50 | 48 | 55 | 52 | 57 | 45 | 37 | 37 | 42 | 54 | 45 | 32   | 37   | 50.1 |
|                                      | Minimum | 34 | 39 | 42 | 40 | 39 | 47 | 46 | 44 | 34 | 32 | 37 | 43 | 48 | 48 | 43 | 37 | 37 | 34 | 38 | 40 | 40 | 40 | 30 | 27 | 28 | 31 | 39 | 30 | 24   | 27   | 37.3 |
| The Southern Interior.               |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |      |
| Belieplain.....                      | Maximum | 53 | 48 | 48 | 55 | 55 | 65 | 57 | 68 | 48 | 50 | 57 | 59 | 69 | 62 | 70 | 65 | 45 | 51 | 52 | 57 | 56 | 61 | 50 | 37 | 44 | 49 | 58 | 55 | 39   | 44   | 54.2 |
|                                      | Minimum | 24 | 30 | 41 | 39 | 36 | 40 | 27 | 47 | 29 | 17 | 19 | 26 | 51 | 48 | 27 | 40 | 36 | 20 | 24 | 35 | 28 | 29 | 34 | 24 | 14 | 20 | 21 | 31 | 15   | 23   | 29.8 |
| Bridgeton.....                       | Maximum | 54 | 46 | 45 | 53 | 56 | 65 | 58 | 67 | 47 | 48 | 53 | 59 | 64 | 62 | 59 | 55 | 45 | 50 | 52 | 55 | 55 | 60 | 49 | 36 | 37 | 44 | 56 | 53 | 35   | 44   | 52.0 |
|                                      | Minimum | 32 | 37 | 42 | 35 | 37 | 45 | 33 | 47 | 32 | 25 | 28 | 35 | 52 | 49 | 33 | 41 | 37 | 27 | 32 | 38 | 32 | 34 | 33 | 24 | 23 | 27 | 30 | 34 | 22   | 26   | 34.1 |
| Burlington.....                      | Maximum | 55 | 48 | 48 | 55 | 55 | 65 | 57 | 68 | 48 | 50 | 57 | 59 | 69 | 62 | 70 | 65 | 45 | 51 | 52 | 57 | 56 | 61 | 50 | 37 | 44 | 49 | 58 | 55 | 39   | 44   | 54.2 |
|                                      | Minimum | 24 | 30 | 41 | 39 | 36 | 40 | 27 | 47 | 29 | 17 | 19 | 26 | 51 | 48 | 27 | 40 | 36 | 20 | 24 | 35 | 28 | 29 | 34 | 24 | 14 | 20 | 21 | 31 | 15   | 23   | 29.8 |
| Clayton.....                         | Maximum | 54 | 46 | 45 | 53 | 56 | 65 | 58 | 67 | 47 | 48 | 53 | 59 | 64 | 62 | 59 | 55 | 45 | 50 | 52 | 55 | 55 | 60 | 49 | 36 | 37 | 44 |    |    |      |      |      |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXX.

DECEMBER, 1925.

No. 12

### GENERAL SUMMARY.

The one outstanding weather event of December was the occurrence of a tropical storm which moved from the southern coast of the Atlantic seaboard to a position off the New Jersey shore on the afternoon of the 3d. Gales driving long continued rain did considerable damage along the water front of the entire Jersey coast. Bulkheads, board walks, and other structures were washed out or otherwise seriously damaged by the combined forces of wind and wave. Great holes were washed in some of the noted resort beaches, and great combers in some instances overtopped the barriers and swept into town and building. Some lives were lost due to the storm, and there was considerable loss and delay to navigation.

Nearly all of the rain, and excess of warmth, were due to the storm. There were several snow flurries of no importance, the greatest amount being on the 16th in extreme northern counties.

The closing week of the year averaged nearly ten degrees colder than normal, but the extremes of cold on the 26th, 27th, and 28th, were not remarkable. During this cold period streams and ponds became ice-bound, but the ice was not thick enough for commercial harvest.

Weather conditions as a whole, the lack of snow and of severe cold, the generous sunshine except during the first five days, all combined in making December a month of generally pleasant weather.

The year closed with a slight excess of warmth and deficiency of precipitation.

Storm warnings were displayed along the coast from the 1st to 3d, 5th, 8th, 12th, 19th, 22d, 25th, and 27th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 33 stations, was 34.0°, which was 1.0° above normal. The highest temperature was 61° at Bridgeton and Runyon on the 6th, and the lowest, -5°, at Culvers Lake on the 27th. The greatest daily range of temperature was 32° at Belleplain and Pleasantville on the 19th and at Indian Mills on the 8th. The highest monthly mean temperature was 37.8° at Cape May City, and the lowest, 30.2° at Charlotteburg and Layton.

The temperature departure from the normal for the year, 1925, to date, by sections, is: The Highlands, +0.4°; Red Sandstone Plain, +0.2°; Southern Interior, +1.0°; Sea Coast, +1.2°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 2.84 inches, which was 1.13 inches below normal. The average total snowfall at eighteen selected stations was 0.6 inch, which was 5.5 inches below normal. The greatest monthly precipitation was 4.58 inches, at Lakewood, and the least, 1.08 inches at Moorestown. The greatest amount of precipitation in any 24 consecutive hours was 2.55 inches at Lakewood on the 3d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 10, or 1 more than normal.

The precipitation accumulated departure from the normal for the year 1925, to date, by sections, is: The Highlands,

+0.58 inch; Red Sandstone Plain, -3.23 inches; Southern Interior, -7.04 inches; Sea Coast, -8.61 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 17 miles per hour, which was 3 miles above normal. The highest velocity, sustained for 5 consecutive minutes, was 70 miles per hour from the northeast at Atlantic City on the 2d.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than normal; partly cloudy, 7, or 2 less than normal; cloudy, 11, or 1 more than normal. The per cent of possible sunshine was 50, which was 2 per cent below normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.94 inches, which was 0.16 inch below normal. The highest reading was 30.50 inches at Cape May City on the 30th, and the lowest, 29.40 inches at Sandy Hook on the 12th.

The mean stage of the Delaware River at Phillipsburg was 5.0 feet, and the highest stage, 9.5 feet on the 6th. At Trenton the mean daily stage was 2.7 feet, which was 0.1 foot above normal. The highest stage was 5.4 feet on the 7th.

Thunder was heard at several northern stations attendant upon the storm of the 5th. Dense fog was observed on the 4th, 5th, 21st and 22d. Solar halos were observed on the 6th, 15th, and 19th and lunar halos on the 23d and 24th. Sleet fell on 9th, 15th and 16th.

### COMPARATIVE DATA FOR DECEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear      | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 35.3        | 60      | 6      | 3.15          | 4.33     | 2.47  | .....      | .....         | .....  | .....                  |
| 1886..... | 29.1        | 60      | -2     | 3.51          | 4.65     | 1.62  | .....      | .....         | .....  | .....                  |
| 1887..... | 33.7        | 62      | 6      | 5.29          | 7.32     | 3.64  | .....      | .....         | 12     | 10                     |
| 1888..... | 34.9        | 65      | 5      | 3.69          | 4.95     | 2.05  | .....      | .....         | 8      | 8                      |
| 1889..... | 41.5        | 71      | 8      | 1.62          | 3.69     | 0.25  | .....      | .....         | 9      | 9                      |
| 1890..... | 30.9        | 56      | 3      | 3.89          | 5.74     | 2.34  | 11         | 10            | 10     | 8                      |
| 1891..... | 40.9        | 71      | 9      | 4.25          | 5.32     | 2.25  | 13         | 9             | 9      | 8                      |
| 1892..... | 30.4        | 68      | 1      | 1.87          | 3.09     | 1.30  | 9          | 11            | 11     | 6                      |
| 1893..... | 34.9        | 70      | 5      | 3.39          | 4.66     | 1.67  | 11         | 10            | 10     | 11                     |
| 1894..... | 34.8        | 66      | -3     | 4.36          | 6.39     | 1.64  | 12         | 9             | 10     | 9                      |
| 1895..... | 37.2        | 70      | 3      | 2.61          | 5.42     | 1.71  | 11         | 9             | 11     | 6                      |
| 1896..... | 31.3        | 64      | -15    | 1.43          | 2.70     | 0.85  | 14         | 9             | 8      | 4                      |
| 1897..... | 35.1        | 69      | -3     | 4.90          | 6.44     | 3.07  | 8          | 11            | 12     | 11                     |
| 1898..... | 33.3        | 66      | -2     | 3.53          | 4.85     | 2.38  | 12         | 10            | 9      | 9                      |
| 1899..... | 35.5        | 69      | -1     | 2.11          | 4.30     | 1.29  | 14         | 10            | 7      | 7                      |
| 1900..... | 34.4        | 64      | -2     | 2.59          | 3.97     | 1.47  | 14         | 10            | 7      | 6                      |
| 1901..... | 32.6        | 68      | -8     | 7.30          | 9.45     | 4.87  | 12         | 9             | 10     | 11                     |
| 1902..... | 31.7        | 62      | -11    | 7.23          | 8.99     | 5.81  | 13         | 7             | 11     | 13                     |
| 1903..... | 28.6        | 56      | -13    | 4.08          | 5.49     | 3.20  | 14         | 9             | 8      | 9                      |
| 1904..... | 27.0        | 60      | -15    | 3.19          | 5.38     | 2.06  | 10         | 7             | 14     | 12                     |
| 1905..... | 36.3        | 61      | 5      | 3.65          | 5.60     | 2.58  | 14         | 8             | 9      | 7                      |
| 1906..... | 33.0        | 70      | -5     | 3.99          | 6.18     | 2.70  | 9          | 8             | 14     | 13                     |
| 1907..... | 36.6        | 70      | -3     | 4.91          | 7.13     | 3.55  | 12         | 8             | 11     | 9                      |
| 1908..... | 34.0        | 72      | 1      | 3.63          | 5.26     | 2.10  | 10         | 8             | 13     | 11                     |
| 1909..... | 29.8        | 60      | -15    | 4.45          | 5.51     | 3.55  | 14         | 8             | 9      | 5                      |
| 1910..... | 26.5        | 58      | -14    | 2.79          | 4.60     | 1.92  | 11         | 10            | 10     | 9                      |
| 1911..... | 38.4        | 70      | 2      | 3.77          | 5.09     | 2.94  | 10         | 7             | 14     | 11                     |
| 1912..... | 36.9        | 68      | -1     | 4.73          | 6.33     | 3.40  | 12         | 9             | 10     | 9                      |
| 1913..... | 37.7        | 63      | -11    | 3.03          | 4.59     | 1.47  | 13         | 9             | 9      | 7                      |
| 1914..... | 31.1        | 66      | -9     | 5.33          | 9.12     | 2.99  | 10         | 6             | 15     | 12                     |
| 1915..... | 31.9        | 64      | 3      | 4.82          | 7.83     | 2.19  | 12         | 9             | 10     | 8                      |
| 1916..... | 32.3        | 70      | -8     | 4.61          | 6.34     | 3.35  | 13         | 8             | 10     | 11                     |
| 1917..... | 24.8        | 54      | -21    | 3.18          | 5.46     | 1.55  | 13         | 7             | 11     | 8                      |
| 1918..... | 37.5        | 66      | 9      | 3.92          | 4.94     | 3.21  | 12         | 7             | 12     | 10                     |
| 1919..... | 28.8        | 67      | -18    | 2.98          | 5.14     | 1.84  | 10         | 8             | 13     | 12                     |
| 1920..... | 36.4        | 69      | 7      | 5.10          | 6.63     | 2.86  | 11         | 8             | 12     | 8                      |
| 1921..... | 32.3        | 64      | -4     | 2.37          | 3.23     | 1.62  | 13         | 8             | 10     | 9                      |
| 1922..... | 32.5        | 65      | -8     | 3.86          | 5.26     | 3.09  | 9          | 9             | 13     | 12                     |
| 1923..... | 40.8        | 69      | 9      | 4.14          | 5.14     | 2.44  | 13         | 7             | 11     | 12                     |
| 1924..... | 32.8        | 68      | -4     | 2.58          | 3.42     | 1.85  | 10         | 8             | 13     | 8                      |
| 1925..... | 34.0        | 61      | -5     | 2.84          | 4.58     | 1.08  | 13         | 7             | 11     | 10                     |



## Climatological Data for December, 1925

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                          |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 34                      | 31.9                         | +1.3                      | 54      | 6     | 5      | 27    | 23                       | 3.65  | -0.42                     | 1.22                 | 1.0                       | 10                           | 16    | 5          | 10                           | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brie E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719             | 33                      | 30.2 <sup>b</sup>            | +0.4                      | 55      | 6     | 0      | 27    | .....                    | 3.57  | -0.76                     | .....                | 1.0                       | 9                            | 2     | 9          | 20                           | n.        |                                                                                                                          |
| Culvers Lake††.....                         | Sussex.....     | 848             | 24                      | .....                        | .....                     | .....   | ..... | -5     | 27    | .....                    | 2.44  | -1.22                     | 0.62                 | 2.0                       | 10                           | 9     | 12         | 10                           | w.        |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 41                      | .....                        | .....                     | 57      | 6     | 4      | 27    | .....                    | 3.89  | -0.41                     | 1.07                 | 1.5                       | 13                           | 2     | 18         | 11                           | .....     |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 24                      | 30.2                         | +2.8                      | 53      | 6     | 0      | 27    | 30                       | 2.28  | -1.66                     | 0.71                 | 1.0                       | 9                            | 12    | 5          | 14                           | w.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 42                      | .....                        | .....                     | 58      | 6     | .....  | ..... | .....                    | 2.13  | -1.58                     | 0.84                 | 2.0                       | 9                            | 11    | 9          | 11                           | nw.       |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 42                      | 33.6 <sup>a</sup>            | +2.3                      | 58      | 6     | 8      | 27    | 24                       | 2.81  | -0.93                     | 1.14                 | 1.0                       | 10                           | 9     | 12         | 10                           | .....     |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 31.7 <sup>a</sup>            | +1.8                      | 56      | 6     | 4      | 27    | 25                       | 2.21  | -1.35                     | 0.68                 | 0.3                       | 10                           | 16    | 6          | 9                            | nw.       |                                                                                                                          |
| Means and extremes.....                     |                 | .....           | .....                   | 31.5                         | +1.7                      | 58      | 6     | -5     | 27    | 30                       | 2.87  | -1.04                     | 1.22                 | 1.2                       | 10                           | 10    | 9          | 12                           | nw.       |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37              | 28                      | 35.0 <sup>b</sup>            | +2.0                      | 58      | 6     | 11     | 27    | 19                       | 2.48  | -1.90                     | 1.57                 | T.                        | 11                           | 8     | 12         | 11                           | nw        | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                                | Morris.....     | 400             | 35                      | 31.8                         | +1.3                      | 60      | 5     | 4      | 27    | 26                       | 2.90  | -1.08                     | 0.79                 | .....                     | 10                           | 18    | 1          | 12                           | nw.       |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 21                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 4.22  | +0.05                     | 1.70                 | .....                     | 11                           | 15    | 11         | 5                            | .....     |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 46                      | 34.4                         | +1.1                      | 59      | 6     | 8      | 27    | 25                       | 3.92  | -0.04                     | 1.70                 | 0.7                       | 12                           | 17    | 4          | 10                           | nw.       |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 39                      | 34.1                         | +2.1                      | 59      | 6     | 9      | 27    | 24                       | 2.72  | -1.04                     | 1.31                 | 0.5                       | 12                           | 20    | 2          | 9                            | nw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                             | Bergen.....     | 90              | 37                      | 33.2                         | +1.4                      | 58      | 6     | 8      | 27    | 22                       | 3.19  | -1.02                     | 1.18                 | 0.8                       | 11                           | 11    | 9          | 11                           | nw.       |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 27                      | 34.4                         | +0.3                      | 56      | 5     | 7      | 27    | 23                       | 3.26  | -0.67                     | 1.90                 | 0.9                       | 13                           | 9     | 12         | 10                           | nw.       |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 38                      | 32.6                         | -1.0                      | 58      | 5     | 9      | 27    | 22                       | 2.57  | -1.30                     | 1.13                 | 0.4                       | 11                           | 15    | 9          | 7                            | nw.       |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 22                      | 32.4                         | +0.9                      | .....   | ..... | 5      | 27    | 26                       | 3.70  | -0.39                     | 1.66                 | 0.5                       | 11                           | 18    | 5          | 8                            | nw        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                       |
| New Brunswick.....                          | Middlesex.....  | 110             | 72                      | 33.8                         | +0.6                      | 60      | 6     | 5      | 27    | 23                       | 2.27  | -1.40                     | 1.09                 | 1.1                       | 7                            | 15    | 5          | 11                           | nw.       |                                                                                                                          |
| New Milford††.....                          | Bergen.....     | 9               | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.10  | .....                     | 1.51                 | .....                     | 10                           | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 54                      | 34.6 <sup>a</sup>            | +1.5                      | 57      | 6     | 7      | 27    | 26                       | 2.74  | -1.32                     | 1.05                 | 1.0                       | 10                           | 13    | 5          | 13                           | nw.       |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120             | 37                      | 32.8                         | +0.1                      | 54      | 6     | 7      | 27    | 26                       | 2.80  | -1.26                     | 1.30                 | 1.0                       | 12                           | 11    | 10         | 10                           | nw.       | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Meeder.<br>Hackensack Water Co.                     |
| Ridgefield††.....                           | Bergen.....     | 80              | 7                       | 33.2                         | .....                     | 58      | 5     | 7      | 27    | 25                       | 3.04  | .....                     | 1.85                 | 1.4                       | 11                           | 10    | 10         | 11                           | nw.       |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70              | 42                      | 33.9                         | +1.7                      | 60      | 6     | 8      | 27    | 26                       | 2.33  | -1.52                     | 0.84                 | 0.1                       | 10                           | 19    | 4          | 8                            | w.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 55                      | 33.6                         | +1.5                      | 58      | 5     | 7      | 27    | 21                       | 4.03  | +0.11                     | 1.87                 | 0.9                       | 11                           | 11    | 9          | 11                           | nw.       |                                                                                                                          |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 5                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.45  | .....                     | 0.98                 | .....                     | 10                           | ..... | .....      | .....                        | .....     |                                                                                                                          |
| New York, N. Y.....                         |                 | 365             | 55                      | 34.5                         | -0.5                      | 57      | 6     | 7      | 27    | 22                       | 3.33  | -0.12                     | 1.73                 | 0.9                       | 12                           | 8     | 12         | 11                           | nw.       |                                                                                                                          |
| Means and extremes.....                     |                 | .....           | .....                   | 33.6                         | +1.0                      | 60      | 5     | 4      | 27    | 26                       | 3.04  | -0.91                     | 1.90                 | 0.7                       | 11                           | 14    | 7          | 10                           | nw.       | U. S. Weather Bureau.                                                                                                    |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Belleplain.....                             | Cape May.....   | 30              | 31                      | 34.6                         | -0.5                      | 60      | 6     | 8      | 31    | 32                       | 2.23  | -1.72                     | 1.09                 | T.                        | 11                           | 13    | 6          | 12                           | nw.       | Thomas J. Durell.<br>Harold K. Tryon.<br>D. S. B. McCoy.<br>Charles H. Dilks.                                            |
| Bridgeton.....                              | Cumberland..... | 90              | 44                      | 35.7 <sup>b</sup>            | -0.5                      | 61      | 6     | 11     | 31    | 24                       | 1.09  | -2.73                     | 0.31                 | 0.5                       | 12                           | 11    | 7          | 13                           | nw.       |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 39                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 29                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Freehold††.....                             | Monmouth.....   | 180             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | County Agr'l Agent.<br>Charles M. Phillips.<br>Milton H. Cunningham.<br>Frank M. Lawrence.                               |
| Hammononton.....                            | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | .....                        | .....                     | 60      | 6     | 11     | 27    | .....                    | 1.78  | -1.89                     | 0.97                 | .....                     | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Indian Mills††.....                         | Burlington..... | 76              | 36                      | 36.4                         | +2.6                      | 60      | 6     | 12     | 27    | 32                       | 2.24  | -2.16                     | 1.10                 | 1.5                       | 11                           | 13    | 6          | 12                           | nw.       | James M. Armstrong.<br>R. W. Holman.<br>John B. Warriek.<br>William L. Fliet.<br>N. J. Dept. Conservation.               |
| Lakewood.....                               | Ocean.....      | 54              | 21                      | 34.1                         | +0.6                      | 59      | 6     | 8      | 27    | 26                       | 4.58  | -0.06                     | 2.55                 | T.                        | 10                           | 13    | 7          | 11                           | w.        |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75              | 62                      | 35.2                         | +1.7                      | 60      | 6     | 11     | 27    | 24                       | 1.08  | -2.61                     | 0.70                 | T.                        | 9                            | 12    | 7          | 12                           | nw.       |                                                                                                                          |
| Northfield††.....                           | Atlantic.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.30  | -0.82                     | 1.72                 | .....                     | 10                           | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Pleasantville††.....                        | Atlantic.....   | 26              | 27                      | 34.6                         | .....                     | 58      | 5     | 12     | 27    | 32                       | 3.51  | -0.73                     | 1.72                 | T.                        | 12                           | 17    | 4          | 10                           | nw.       |                                                                                                                          |
| Runyon††.....                               | Middlesex.....  | 18              | .....                   | 32.3 <sup>d</sup>            | .....                     | 61      | 6     | 6      | 27    | .....                    | 3.01  | .....                     | 1.20                 | .....                     | 10                           | 15    | 11         | 5                            | w.        | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes<br>U. S. Weather Bureau.      |
| Trenton.....                                | Mercer.....     | 190             | 53                      | 34.4                         | 0.0                       | 60      | 5     | 11     | 27    | 21                       | 1.65  | -1.51                     | 1.13                 | 0.4                       | 9                            | 8     | 10         | 13                           | nw.       |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 32                      | 35.8 <sup>a</sup>            | +1.4                      | 58      | 5     | -1     | 27    | 29                       | 4.38  | -0.13                     | 2.40                 | .....                     | 11                           | 18    | 4          | 9                            | w.        |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 56                      | 36.1                         | +1.6                      | 60      | 6     | 12     | 27    | 27                       | 1.46  | -2.36                     | 0.45                 | T.                        | 9                            | 16    | 6          | 9                            | nw.       |                                                                                                                          |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 36.6                         | +0.3                      | 61      | 5     | 13     | 27    | 20                       | 0.96  | -2.08                     | 0.38                 | 0.1                       | 8                            | 13    | 5          | 13                           | nw.       |                                                                                                                          |
| Means and extremes.....                     |                 | .....           | .....                   | 34.9                         | +0.9                      | 61      | 6     | -1     | 27    | 32                       | 2.53  | -1.52                     | 2.55                 | 0.3                       | 10                           | 14    | 7          | 10                           | nw.       |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                          |
| Asbury Park.....                            | Monmouth.....   | 22              | 36                      | 34.6                         | -0.4                      | 56      | 6     | 10     | 27    | 26                       | 2.64  | -1.21                     | 1.56                 | 0.2                       | 9                            | 20    | 5          | 6                            | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 51                      | 36.4                         | 0.0                       | 56      | 5     | 13     | 27    | 22                       | 3.42  | -0.32                     | 2.13                 | T.                        | 11                           | 12    | 5          | 14                           | nw.       |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 41                      | 37.8                         | -0.2                      | 54      | 3     | 15     | 27    | 20                       | 3.02  | -0.76                     | 1.60                 | T.                        | 11                           | 9     | 4          | 18                           | nw.       |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 18                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 27                      | 35.0                         | +0.6                      | 55      | 5     | 11     | 27    | 21                       | 2.40  | -1.56                     | 1.17                 | 0.2                       | 11                           | 9     | 10         | 12                           | w.        |                                                                                                                          |
| Means and extremes.....                     |                 | .....           | .....                   | 36.0                         | 0.0                       | 56      | 5     | 10     | 27    | 26                       | 2.87  | -0.96                     | 2.13                 | 0.1                       | 10                           | 13    | 6          | 12                           | nw.       |                                                                                                                          |
| For the State.....                          |                 | .....           | .....                   | 34.0                         | +1.0                      | 61      | 6     | -5     | 27    | 32                       | 2.84  | -1.13                     | 2.55                 | 0.6                       | 10                           | 13    | 7          | 11                           | nw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere



| Stations                                   | Drainage Basin  | Day of month |     |      |        |      |     |   |     |     |    |     |     |    |    |    |     |     |    |    |     |     |     |     |     |     |     |    |    |    |    |    |      | Total |
|--------------------------------------------|-----------------|--------------|-----|------|--------|------|-----|---|-----|-----|----|-----|-----|----|----|----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|------|-------|
|                                            |                 | 1            | 2   | 3    | 4      | 5    | 6   | 7 | 8   | 9   | 10 | 11  | 12  | 13 | 14 | 15 | 16  | 17  | 18 | 19 | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27 | 28 | 29 | 30 | 31 |      |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |      |        |      |     |   |     |     |    |     |     |    |    |    |     |     |    |    |     |     |     |     |     |     |     |    |    |    |    |    |      |       |
| Belvidere.....                             | Delaware.....   | .28          | .02 | 1.22 | .56    | 1.00 |     |   |     | T.  |    |     | .02 |    |    |    | .05 |     |    |    | T.  | .14 | .81 |     | .05 |     |     |    |    |    |    |    | 3.65 |       |
| Charlotteburg.....                         | Passaic.....    | *            | .46 | *    | * 2.60 |      |     |   |     |     |    |     |     |    |    |    | .05 |     |    |    |     | .20 | .20 |     | .06 |     |     |    |    |    |    |    | 3.57 |       |
| Culvers Lake.....                          | Delaware.....   | .30          | .03 | .62  | .28    | .20  | .61 |   |     | T.  |    |     |     |    | T. |    | .01 | T.  |    |    |     | .15 | .22 |     | .02 | T.  | T.  |    |    |    |    |    | 2.44 |       |
| Dover.....                                 | Passaic.....    | .45          | .39 | 1.07 | .71    | .55  |     |   | .01 |     |    |     | .02 |    | T. |    | .05 | T.  |    |    | *   | .07 | .54 |     | .05 | .05 |     |    |    |    |    |    | 3.89 |       |
| Layton.....                                | Delaware.....   | .26          | .03 | .71  | .04    | .54  | .53 |   |     | .03 |    |     |     |    |    | T. | .06 | T.  | T  |    |     | .07 | .07 |     | T.  | T.  | T.  |    |    |    |    |    | 2.28 |       |
| Newton.....                                | Delaware.....   | .32          | .04 | .84  | .36    | .30  |     |   |     | T.  |    |     | T.  |    |    |    | .06 | .04 |    |    |     | .15 | .20 |     | .02 | T.  | T.  |    |    |    |    |    | 2.13 |       |
| Phillipsburg.....                          | do.....         | .24          | .08 | 1.14 | .20    | .65  |     |   |     | T.  |    |     |     |    | T. |    | .07 |     |    |    | .09 | .18 | .09 |     | T.  |     | .07 |    |    |    |    |    | 2.81 |       |
| Sussex.....                                | Hudson.....     | .34          | *   | .68  | .28    | .08  | .34 |   |     | .03 |    |     | .02 |    | T. |    | T   | T.  |    |    |     | .18 | .23 |     | .03 |     |     |    |    |    |    |    | 2.21 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |      |        |      |     |   |     |     |    |     |     |    |    |    |     |     |    |    |     |     |     |     |     |     |     |    |    |    |    |    |      |       |
| Bergen Point**                             | Coast.....      |              |     |      |        |      |     |   |     | T.  |    |     |     |    |    |    | .05 |     |    |    |     | .21 | .26 |     | .01 |     |     |    |    |    |    |    | 2.90 |       |
| Boonton                                    | Passaic.....    | .10          | .35 | .35  | .79    | .02  | .76 |   |     |     |    |     | T.  |    |    |    |     | .09 |    |    |     |     | .37 | .44 | .14 | .11 |     |    |    |    |    |    | 4.22 |       |
| Chatham                                    | do.....         | .07          | .44 | .51  | 1.70   | .11  | .24 |   |     |     |    |     |     |    | T. |    |     |     | T  |    | *   | .13 | .21 |     | .01 | .01 |     |    |    |    |    |    | 3.92 |       |
| Elizabeth.....                             | Coast.....      | .25          | T.  | 1.70 | 1.20   | .10  | .25 |   | T.  |     |    |     | .02 |    |    |    | .04 |     |    |    |     | *   | .37 | .21 |     |     |     |    |    |    |    |    | 3.22 |       |
| Flemington.....                            | Raritan.....    | .22          | .03 | 1.31 | .32    | .07  | .36 |   |     |     |    |     | .02 |    |    |    | .05 | T.  |    |    |     | .02 | .11 | .19 |     | T.  | .02 | T. |    |    |    |    | 2.72 |       |
| Highwood.....                              | Hackensack..... | .37          | .05 | 1.13 | .80    | .06  | .17 |   | T.  | T.  |    |     | .05 |    | T. |    | .04 | T.  |    |    |     | T.  | .21 | .30 |     | .01 | T.  |    |    |    |    |    | 3.19 |       |
| Jersey City.....                           | Coast.....      | .34          | .03 | 1.90 | .32    | .05  | .11 |   | T.  |     |    |     | .01 |    | T. |    | .03 | T.  |    |    | .15 | .06 | .23 |     | .02 | .01 | T.  |    | T. |    |    |    | 3.26 |       |
| Lambertville.....                          | Delaware.....   | .14          | .06 | 1.13 | .50    | .24  | .06 |   |     | T.  |    | .02 |     |    |    |    | .04 |     |    |    | .02 | .09 | .27 |     | T.  | T.  | T.  |    |    |    |    |    | 2.57 |       |
| Little Falls                               | Passaic.....    | .16          | .23 | .70  | 1.66   | .06  | .24 |   | T.  | T.  |    |     | .01 |    |    |    | .04 |     |    |    |     | .24 | .30 | .01 |     |     |     |    |    |    |    |    |      |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

[illegible]



## Daily Temperatures for December, 1925

| Stations                             | 1          | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  | Mean              |                   |
|--------------------------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |
| Belvidere.....                       | Maximum... | 36  | 42  | 42  | 49  | 50  | 54  | 47  | 46  | 44  | 33  | 39  | 45  | 47  | 39  | 34  | 39  | 35  | 36  | 44  | 41  | 41  | 43  | 34  | 36  | 35  | 31  | 16  | 29  | 31  | 32  | 30                | 38.7              |
|                                      | Minimum... | 30  | 33  | 34  | 40  | 40  | 36  | 27  | 28  | 29  | 22  | 22  | 29  | 31  | 27  | 23  | 24  | 27  | 24  | 21  | 29  | 32  | 33  | 21  | 17  | 24  | 15  | 5   | 11  | 17  | 12  | 15                | 25.1              |
| Charlotteburg.....                   | Maximum... | 38  | 41  | 50  | 49  | 46  | 55  | 45  | 42  | 39  | 33  | 32  | 40  | 46  | 41  | 31  | 35  | 34  | 35  | 39  | 40  | 48  | 45  | 35  | 30  | 33  | 28  | 20  | 33  | 30  | 29  | 37.7 <sup>a</sup> |                   |
|                                      | Minimum... | 31  | 36  | 34  | 37  | 40  | ... | 28  | 33  | 26  | 16  | 18  | ... | 21  | 28  | 20  | 25  | 21  | 20  | 20  | 33  | 38  | 17  | 20  | 18  | 9   | 0   | 6   | 17  | 15  | 14  | 22.8 <sup>b</sup> |                   |
| Dover.....                           | Maximum... | ... | ... | ... | ... | 57  | 49  | ... | 41  | 34  | 40  | 45  | 46  | ... | 35  | 36  | 35  | 38  | 42  | ... | 43  | 42  | 35  | 34  | ... | 24  | 8   | ... | 32  | 31  | 30  | 37.0 <sup>c</sup> |                   |
|                                      | Minimum... | ... | ... | ... | ... | 36  | 27  | ... | 25  | 20  | 22  | 28  | 25  | 23  | ... | 35  | 36  | 35  | 38  | 42  | ... | 43  | 42  | 35  | 34  | ... | 24  | 8   | ... | 32  | 31  | 30                | 37.0 <sup>c</sup> |
| Layton.....                          | Maximum... | 34  | 38  | 42  | 47  | 48  | 53  | 48  | 46  | 44  | 33  | 39  | 44  | 48  | 35  | 31  | 35  | 36  | 32  | 49  | 40  | 40  | 38  | 30  | 33  | 33  | 30  | 10  | 29  | 30  | 31  | 37.3              |                   |
|                                      | Minimum... | 28  | 33  | 35  | 42  | 41  | 30  | 25  | 30  | 25  | 16  | 19  | 32  | 29  | 24  | 22  | 20  | 22  | 20  | 19  | 24  | 32  | 29  | 19  | 19  | 20  | 10  | 0   | 5   | 19  | 8   | 15                | 23.0              |
| Newton.....                          | Maximum... | ... | 42  | 42  | 48  | 46  | 58  | 46  | 45  | 45  | 34  | 40  | 45  | 50  | 45  | 30  | 33  | 35  | 35  | 43  | 41  | 39  | 41  | 38  | ... | 32  | 32  | 13  | 32  | 31  | 33  | 30                | 38.8 <sup>b</sup> |
|                                      | Minimum... | 26  | 28  | 35  | 38  | 36  | 40  | 30  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...               | ...               |
| Phillipsburg.....                    | Maximum... | 38  | 41  | 44  | 53  | 56  | 58  | 48  | 44  | 46  | 35  | 38  | 44  | 52  | 37  | 35  | 36  | 36  | 34  | 41  | 39  | 40  | 44  | 33  | 36  | 40  | 30  | ... | 29  | 28  | 31  | 40.2 <sup>b</sup> |                   |
|                                      | Minimum... | 31  | 36  | 37  | 43  | 44  | 34  | 29  | 31  | 27  | 24  | 25  | 31  | 30  | 27  | 25  | 27  | 27  | 26  | 25  | 30  | 35  | 30  | 24  | 24  | 28  | 11  | 8   | 13  | 19  | 15  | 18                | 27.0              |
| Sussex.....                          | Maximum... | 33  | 39  | 41  | 48  | 48  | 56  | 55  | 46  | 45  | 38  | 39  | 44  | 43  | 36  | 31  | 35  | 34  | 36  | 46  | 39  | 40  | 41  | 35  | 35  | 33  | 32  | 25  | 31  | ... | 32  | 31                | 38.9 <sup>a</sup> |
|                                      | Minimum... | 29  | 32  | 34  | 40  | 41  | 33  | 30  | 33  | 25  | 18  | 21  | 31  | 28  | 27  | 22  | 19  | 25  | 22  | 22  | 26  | 34  | 35  | 20  | 19  | 20  | 10  | 4   | 6   | ... | 13  | 17                | 24.5 <sup>a</sup> |
| The Red Sandstone Plain.             |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |
| Bergen Point.....                    | Maximum... | 39  | 45  | 50  | 51  | 51  | 58  | 50  | 48  | 48  | 35  | 42  | 46  | 47  | ... | 37  | 40  | 37  | 37  | 43  | 41  | 43  | 46  | 37  | 36  | 36  | 35  | 21  | 30  | 31  | 35  | 32                | 40.9 <sup>a</sup> |
|                                      | Minimum... | 33  | 38  | 39  | 46  | 44  | 40  | 32  | 37  | 29  | 25  | 25  | 36  | 33  | ... | 27  | 26  | 29  | 25  | 25  | 35  | ... | 36  | 23  | 25  | 30  | 21  | 11  | 14  | 21  | 18  | 19                | 29.0 <sup>b</sup> |
| Boonton§§.....                       | Maximum... | 39  | 44  | 49  | 50  | 60  | 49  | 48  | 46  | 37  | 35  | 41  | 48  | 39  | 39  | 35  | 38  | 36  | 37  | 44  | 43  | 41  | 45  | 32  | 36  | 35  | 24  | 24  | 32  | 33  | 31  | 39.5              |                   |
|                                      | Minimum... | 20  | 32  | 36  | 39  | 40  | 37  | 24  | 32  | 34  | 19  | 21  | 24  | 34  | 30  | 24  | 21  | 22  | 24  | 18  | 23  | 32  | 32  | 20  | 20  | 20  | 14  | 4   | 5   | 19  | 15  | 15                | 24.2              |
| Elizabeth.....                       | Maximum... | 39  | 45  | 46  | 52  | 51  | 59  | 51  | 47  | 47  | 34  | 40  | 49  | 47  | 41  | 36  | 40  | 39  | 37  | 44  | 42  | 42  | 46  | 41  | 38  | 35  | 35  | 20  | 35  | 35  | 33  | 41.3              |                   |
|                                      | Minimum... | 32  | 38  | 39  | 46  | 44  | 40  | 29  | 32  | 31  | 21  | 23  | 32  | 36  | 29  | 23  | 26  | 28  | 24  | 23  | 31  | 36  | 39  | 22  | 23  | 27  | 18  | 8   | 10  | 20  | 13  | 13                | 27.6              |
| Flemington.....                      | Maximum... | 41  | 43  | 47  | 51  | 50  | 59  | 51  | 48  | 48  | 34  | 40  | 48  | 46  | 41  | 36  | 40  | 37  | 37  | 45  | 40  | 40  | 44  | 36  | 39  | 36  | 36  | 24  | 32  | 34  | 32  | 33                | 40.9              |
|                                      | Minimum... | 30  | 37  | 38  | 46  | 44  | 37  | 27  | 31  | 31  | 23  | 24  | 30  | 35  | 27  | 24  | 25  | 29  | 25  | 23  | 29  | 33  | 36  | 23  | 25  | 28  | 18  | 9   | 11  | 18  | 14  | 17                | 27.3              |
| Highwood.....                        | Maximum... | 37  | 44  | 47  | 52  | 51  | 58  | 48  | 47  | 46  | 35  | 39  | 48  | 47  | 39  | 34  | 38  | 35  | 37  | 43  | 43  | 43  | 44  | 36  | 36  | 35  | 32  | 17  | 34  | 34  | 32  | 31                | 40.1              |
|                                      | Minimum... | 32  | 36  | 38  | 46  | 43  | 37  | 29  | 32  | 26  | 20  | 22  | 33  | 30  | 25  | 22  | 24  | 26  | 25  | 21  | 30  | 35  | 35  | 22  | 24  | 23  | 15  | 8   | 12  | 20  | 12  | 15                | 26.4              |
| Jersey City.....                     | Maximum... | 43  | 46  | 48  | 51  | 56  | 56  | 51  | 47  | 47  | 35  | 40  | 46  | 47  | 38  | 35  | 39  | 38  | 37  | 44  | 44  | 43  | 46  | 34  | 37  | 36  | 27  | 18  | 34  | 34  | 33  | 40.7              |                   |
|                                      | Minimum... | 32  | 39  | 38  | 43  | 41  | 43  | 36  | 34  | 27  | 24  | 24  | 36  | 32  | 25  | 26  | 25  | 28  | 25  | 25  | 38  | 37  | 28  | 22  | 24  | 27  | 18  | 7   | 11  | 21  | 20  | 17                | 28.2              |
| Lambertville.....                    | Maximum... | 40  | 42  | 45  | 50  | 58  | 57  | 47  | 46  | 47  | 31  | 37  | 44  | 46  | 40  | 32  | 37  | 32  | 44  | 40  | 38  | 42  | 35  | 37  | 36  | 30  | 18  | 7   | 10  | 27  | 29  | 36                | 38.8              |
|                                      | Minimum... | 30  | 37  | 37  | 45  | 43  | 38  | 31  | 29  | 30  | 20  | 22  | 33  | 31  | 27  | 21  | 25  | 26  | 22  | 22  | 31  | 34  | 34  | 22  | 23  | 26  | 17  | 9   | 10  | 12  | 12  | 17                | 26.3              |
| Little Falls§§.....                  | Maximum... | 41  | 41  | 50  | 50  | ... | 51  | 49  | 46  | 34  | 33  | 44  | 49  | 38  | 36  | 36  | 39  | 32  | 38  | 41  | 43  | 40  | 46  | 36  | 36  | 35  | 23  | 25  | 34  | 32  | 33  | 31                | 38.7 <sup>a</sup> |
|                                      | Minimum... | 24  | 33  | 37  | 39  | 42  | 39  | 27  | 33  | 33  | 21  | 22  | 28  | 34  | 30  | 24  | 23  | 24  | 24  | 23  | 27  | 31  | 36  | 20  | 22  | 22  | 16  | 5   | 8   | 21  | 19  | 16                | 26.0              |
| New Brunswick.....                   | Maximum... | 40  | 46  | 47  | 51  | 51  | 60  | 50  | 47  | 48  | 33  | 39  | 46  | 48  | 38  | 38  | 39  | 37  | 35  | 45  | 41  | 42  | 44  | 40  | 37  | 36  | 35  | 18  | 29  | 31  | 30  | 31                | 40.2              |
|                                      | Minimum... | 31  | 37  | 37  | 47  | 44  | 38  | 30  | 32  | 32  | 22  | 24  | 31  | 34  | 29  | 23  | 25  | 28  | 24  | 22  | 31  | 35  | 38  | 23  | 25  | 27  | 18  | 5   | 10  | 17  | 15  | 15                | 27.4              |
| Paterson.....                        | Maximum... | ... | 44  | 48  | 51  | 49  | 57  | 50  | 48  | 47  | 36  | 41  | 49  | 46  | 40  | 35  | 40  | 37  | 38  | 44  | 42  | 48  | 45  | 39  | 37  | 37  | 19  | 36  | 35  | 34  | 32  | 41.4 <sup>a</sup> |                   |
|                                      | Minimum... | 31  | ... | 38  | 41  | 43  | 41  | 31  | 34  | 30  | 23  | 25  | 33  | 35  | 28  | 26  | 26  | 29  | 26  | 25  | 30  | 36  | 37  | 23  | 24  | 27  | 17  | 7   | 10  | 22  | 19  | 18                | 27.8 <sup>a</sup> |
| Plainfield.....                      | Maximum... | 43  | 47  | 50  | 53  | 52  | 54  | 51  | 48  | 48  | 35  | 41  | 47  | 49  | 36  | 34  | 37  | 37  | 44  | 42  | 43  | 43  | 45  | 33  | 37  | 36  | 27  | 15  | 34  | 34  | 32  | 40.4              |                   |
|                                      | Minimum... | 29  | 36  | 34  | 40  | 39  | 38  | 25  | 32  | 27  | 20  | 22  | 35  | 31  | 24  | 20  | 25  | 28  | 24  | 24  | 28  | 30  | 23  | 22  | 20  | 24  | 15  | 7   | 12  | 20  | 12  | 11                | 25.1              |
| Ridgefield.....                      | Maximum... | 36  | 43  | 48  | 52  | 58  | 56  | 49  | 46  | 44  | 34  | 38  | 48  | 47  | 39  | 36  | 38  | 37  | 39  | 44  | 41  | 41  | 44  | 32  | 36  | 35  | 27  | 12  | 34  | 35  | 33  | 32                | 39.8              |
|                                      | Minimum... | 34  | 36  | 39  | 45  | 43  | 37  | 33  | 32  | 21  | 21  | 23  | 33  | 30  | 25  | 24  | 25  | 26  | 25  | 23  | 34  | 36  | 28  | 22  | 24  | 27  | 11  | 7   | 9   | 19  | 16  | 16                | 26.6              |
| Somerville.....                      | Maximum... | 41  | 45  | 47  | 52  | 51  | 60  | 51  | 48  | 46  | 34  | 42  | 47  | 48  | 40  | 35  | 40  | 38  | 35  | 46  | 42  | 41  | 44  | 39  | 39  | 34  | 35  | 22  | 31  | 34  | 32  | 32                | 41.0              |
|                                      | Minimum... | 32  | 38  | 39  | 46  | 44  | 35  | 25  | 32  | 38  | 19  | 22  | 29  | 34  | 29  | 24  | 23  | 26  | 25  | 23  | 29  | 32  | 38  | 24  | 24  | 25  | 19  | 8   | 11  | 19  | 13  | 11                | 26.8              |
| South Orange.....                    | Maximum... | 39  | 44  | 48  | 52  | 58  | 51  | 48  | 47  | 46  | 38  | 38  | 46  | 44  | 38  | ... | 38  | 35  | 36  | 42  | 42  | 42  | 45  | 46  | 32  | 40  | 36  | 28  | 13  | 31  | 31  | 30                | 39.8 <sup>a</sup> |
|                                      | Minimum... | 34  | 38  | 38  | 46  | 44  | 36  | 32  | 36  | 25  | 23  | 25  | 32  | 32  | 26  | 25  | 26  | 26  | 26  | 24  | 35  | 37  | 28  | 22  | 24  | 26  | 10  | 7   | 13  | 21  | 18  | 16                | 27.4              |
| New York, N. Y.....                  | Maximum... | 43  | 46  | 49  | 52  | 57  | 50  | 47  | 47  | 35  | 39  | 46  | 48  | 39  | 36  | 39  | 37  | 37  | 44  | 44  | 43  | 46  | 33  | 38  | 36  | 27  | 14  | 34  | 34  | 33  | 33  | 40.7              |                   |
|                                      | Minimum... | 32  | 40  | 39  | 45  | 43  | 43  | 36  | 34  | 25  | 24  | 24  | 36  | 32  | 25  | 26  | 26  | 28  | 25  | 25  | 38  | 38  | 22  |     |     |     |     |     |     |     |     |                   |                   |



# CLIMATOLOGICAL DATA.

NEW JERSEY SECTION,  
G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXX.

ANNUAL SUMMARY, 1925. *RECAP OF* No. 13

## GENERAL SUMMARY.

The two principal weather factors, temperature and precipitation, show that the year 1925 was warm and dry in New Jersey. The three warm months of February, March and June were not equally offset by subnormal warmth in October. February was almost as warm as the normal for March, and October was colder than the normal for April. The February warmth caused freshets in some of the rivers in northern parts of the State with considerable resulting damage. A cold wave in early March afforded an opportunity for some late ice harvest, which is quite unusual for the season. June was the warmest month of the year, another unusual feature, as it is normally warmer in both July and August.

January, July, October, and November produced the only surplus precipitation, which was slight, and this was substantially diminished in other months to a deficiency for the year.

A snowstorm at the close of October was remarkable for its early occurrence, and records have to be searched back to 1860 and 1859 for anything similar. Snow covered foliage on shrubs and trees was an unfamiliar sight, and children's sleds were brought out and put into use.

The past 20 years has shown an accumulated lack of precipitation throughout the State of 90 and more inches, from that of the preceding twenty-year period. While this has no climatic significance, it is an important fact to be considered in engineering investigations of stream flow, ground water levels and water supply. With increasing population and consequent increase in use of water, the deficiency in precipitation is more apparent than real.

The mean temperature for the year, 52.1°, was 0.4° above normal. The warmest month was June, 73.6°, and the coldest, January, 27.4°. The highest temperature was 103° at Belvidere on June 5th, and the lowest, 20° below zero at Layton on January 28th. The highest mean temperature was 55.0° at Cape May City, and the lowest, 48.1° at Charlotteburg. The greatest annual range of temperature was 119° at Layton.

The average precipitation for the State for the year was 42.15 inches, which was 4.39 inches below normal. The greatest monthly average was 7.37 inches in July, and the least, 2.10 inches in August. The greatest monthly amount of precipitation was 10.09 inches at Belleplain in July, and the least, 0.49 inch at Cape May City in May. The greatest annual precipitation was 54.24 inches at Belvidere, and the least, 33.16 inches at Cape May City.

The average snowfall for the State was 25.4 inches, which was 5.4 inches below normal. The greatest annual snowfall was 55.6 inches at Belvidere, and the least, 3.9 inches at Northfield.

The average number of days on which 0.01 inch or more precipitation occurred was 111, which was 3 less than normal. The average number of clear days was 165, which was 17 more than normal; partly cloudy, 97, which was 13 less than normal; cloudy, 103, which was 4 less than normal.

The prevailing wind direction was from the northwest; the highest velocity was 78 miles per hour from the northeast at Atlantic City on January 2d.

A moderate hail storm occurred in portions of Essex, Passaic and south Bergen counties on May 23d. Another hail storm moved over the State from Gloucester county, across Camden and Burlington to Ocean county on May 29th. Some fields and

cranberry bogs were almost a total loss. Appreciable damage by hail occurred at Franklin Park on August 31st. A heavy wind storm at Riverside on July 16th, caused considerable injury. Light hail with no damage fell at various stations on June 9th, 16th, 20th, 29th, July 16th, and August 11th.

## COMPARATIVE ANNUAL DATA FOR THE STATE

| Year | Temperature |         |        | Average precipitation | Year | Temperature |         |        | Average precipitation |
|------|-------------|---------|--------|-----------------------|------|-------------|---------|--------|-----------------------|
|      | Mean        | Highest | Lowest |                       |      | Mean        | Highest | Lowest |                       |
| 1885 | 50.5        | 100     | -2     | 37.87                 | 1906 | 52.8        | 98      | -15    | 46.38                 |
| 1886 | 50.2        | 98      | -10    | 46.54                 | 1907 | 50.4        | 96      | -22    | 51.65                 |
| 1887 | 51.1        | 102     | -6     | 47.66                 | 1908 | 52.6        | 106     | -17    | 42.58                 |
| 1888 | 50.0        | 99      | -12    | 52.20                 | 1909 | 52.0        | 100     | -15    | 40.86                 |
| 1889 | 52.8        | 95      | -3     | 63.33                 | 1910 | 52.0        | 99      | -15    | 39.73                 |
| 1890 | 53.2        | 101     | 0      | 49.34                 | 1911 | 52.6        | 104     | -12    | 50.36                 |
| 1891 | 51.4        | 102     | 1      | 47.98                 | 1912 | 51.3        | 100     | -32    | 46.61                 |
| 1892 | 53.2        | 105     | -6     | 42.04                 | 1913 | 54.2        | 100     | -11    | 46.99                 |
| 1893 | 51.4        | 103     | -21    | 47.90                 | 1914 | 51.4        | 99      | -12    | 39.23                 |
| 1894 | 50.8        | 106     | -11    | 47.37                 | 1915 | 52.5        | 98      | -3     | 47.37                 |
| 1895 | 53.0        | 109     | -12    | 37.29                 | 1916 | 51.2        | 100     | -18    | 38.17                 |
| 1896 | 51.7        | 105     | -15    | 42.51                 | 1917 | 49.6        | 104     | -21    | 40.80                 |
| 1897 | 52.0        | 102     | -6     | 51.72                 | 1918 | 51.2        | 108     | -16    | 37.65                 |
| 1898 | 53.2        | 107     | -15    | 52.35                 | 1919 | 52.5        | 103     | -12    | 52.10                 |
| 1899 | 52.1        | 103     | -21    | 45.84                 | 1920 | 51.2        | 98      | -17    | 51.87                 |
| 1900 | 53.8        | 104     | -9     | 42.71                 | 1921 | 54.1        | 100     | -5     | 38.16                 |
| 1901 | 51.4        | 107     | -8     | 51.80                 | 1922 | 52.6        | 98      | -11    | 41.57                 |
| 1902 | 51.7        | 100     | -11    | 59.44                 | 1923 | 51.9        | 106     | -14    | 40.38                 |
| 1903 | 51.7        | 100     | -16    | 56.25                 | 1924 | 50.7        | 102     | -6     | 44.17                 |
| 1904 | 49.3        | 100     | -34    | 43.78                 | 1925 | 52.1        | 103     | -20    | 42.15                 |
| 1905 | 51.3        | 102     | -18    | 42.06                 |      |             |         |        |                       |

## MONTHLY STATE DATA FOR 1925

| Month     | Temperature |                       |         |        | Precipitation |                       |          |       |        |                       |
|-----------|-------------|-----------------------|---------|--------|---------------|-----------------------|----------|-------|--------|-----------------------|
|           | Mean        | Departure from normal | Highest | Lowest | Average       | Departure from normal | Greatest | Least | Snow   | Departure from normal |
| January   | 27.4        | -2.7                  | 59      | -20    | 4.43          | +0.81                 | 8.73     | 2.54  | 22.8   | +15.2                 |
| February  | 37.3        | +7.5                  | 72      | -1     | 2.23          | -1.38                 | 4.64     | 1.18  | 0.7    | -8.2                  |
| March     | 43.3        | +4.5                  | 80      | 1      | 3.47          | -0.49                 | 6.09     | 1.50  | 0.3    | -5.7                  |
| April     | 51.4        | +2.1                  | 88      | 15     | 2.40          | -1.22                 | 3.35     | 1.31  | T.     | -1.5                  |
| May       | 57.7        | -2.6                  | 99      | 23     | 2.86          | -0.93                 | 4.94     | 0.49  | 0.0    | 0.0                   |
| June      | 73.6        | +5.1                  | 103     | 36     | 3.10          | -0.64                 | 6.16     | 0.72  | 0.0    | 0.0                   |
| July      | 72.0        | -1.5                  | 99      | 39     | 7.37          | +2.78                 | 10.09    | 4.03  | 0.0    | 0.0                   |
| August    | 71.0        | -0.9                  | 93      | 35     | 2.10          | -2.71                 | 4.12     | 0.94  | 0.0    | 0.0                   |
| September | 67.8        | +2.1                  | 96      | 25     | 2.92          | -0.71                 | 5.81     | 0.64  | 0.0    | 0.0                   |
| October   | 49.1        | -5.9                  | 84      | 12     | 4.59          | +0.90                 | 5.78     | 3.38  | 1.7    | +1.7                  |
| November  | 42.6        | -1.1                  | 76      | 10     | 3.40          | +0.33                 | 5.10     | 2.48  | 0.7    | -0.5                  |
| December  | 34.0        | +1.0                  | 61      | -5     | 2.84          | -1.13                 | 4.58     | 1.08  | 0.6    | -5.5                  |
| Year      | *52.1       | +0.4                  | 103     | -20    | †42.15        | -4.39                 | 10.09    | 0.49  | **25.4 | -5.4                  |

\* Mean of 24 stations

† Mean of the sums of 32 stations

\*\* Mean of 28 stations

## KILLING FROSTS

| Stations                                   | Last in spring | First in autumn | Stations                     | Last in spring | First in autumn |
|--------------------------------------------|----------------|-----------------|------------------------------|----------------|-----------------|
| <i>The Highlands and Kittatinny Valley</i> |                |                 | <i>The Southern Interior</i> |                |                 |
| Belvidere                                  | May 8          | Oct. 11         | Belleplain                   | May 27         | Oct. 8          |
| do.                                        | 19             | Sept. 23        | Bridgeton                    | do.            | do. 11          |
| Charlotteburg                              | do. 8          | do. 23          | Burlington                   | May 9          | do.             |
| Culvers Lake                               | do. 9          | do.             | Hightstown                   | do. 8          | do.             |
| Dover                                      | do. 27         | Sept. 23        | Imlaytown                    | do. 9          | do.             |
| Layton                                     | do. 9          | do.             | Indian Mills                 | do. 8          | Oct. 20         |
| Newton                                     | do. 8          | Oct. 11         | Lakewood                     | do. 8          | do. 21          |
| Phillipsburg                               | do. 8          | Sept. 23        | Moorestown                   | do. 8          | do. 11          |
| Sussex                                     | do. 9          | do.             | Pleasantville                | do. 9          | do. 11          |
| <i>The Red Sandstone Plain</i>             |                |                 | Runyon                       | do. 27         | do. 1           |
| Bergen Point                               | Mar. 23        | Oct. 29         | Trenton                      | Apr. 21        | do. 11          |
| Boonton                                    | May 9          | Sept. 26        | Tuckerton                    | May 8          | do. 11          |
| Chatham                                    | do.            | do. 26          | Vineland                     | do. 8          | do. 11          |
| Elizabeth                                  | Apr. 21        | Oct. 29         | <i>The Sea Coast</i>         |                |                 |
| Flemington                                 | May 8          | do. 11          | Asbury Park                  | do.            | Oct. 31         |
| Highwood                                   | do. 8          | do. 1           | Atlantic City                | Mar. 4         | do. 29          |
| Jersey City                                | Apr. 21        | do. 29          | Cape May City                | Apr. 21        | do. 31          |
| Lambertville                               | May 8          | do. 11          | Long Branch                  | do. 7          | do.             |
| Little Falls                               | do. 8          | do. 1           | Sandy Hook                   | Mar. 16        | Oct. 31         |
| New Brunswick                              | do. 9          | do. 24          |                              |                |                 |
| Paterson                                   | Apr. 21        | do. 11          |                              |                |                 |
| Plainfield                                 | May 9          | do. 24          |                              |                |                 |
| Ridgefield                                 | do.            | do. 1           |                              |                |                 |
| Somerville                                 | May 19         | do. 1           |                              |                |                 |
| South Orange                               | Apr. 21        | Oct. 29         |                              |                |                 |



## Climatological Data for the Year 1925

| STATION                              | Counties   | Elevation, feet | Temperature (degrees Fahrenheit) |             |         |         |        |          | Precipitation (inches)  |                    |                  |       |               |       | Number days with .01 or more | Sky                       |                   |                           | Prevailing direction of wind |                    |
|--------------------------------------|------------|-----------------|----------------------------------|-------------|---------|---------|--------|----------|-------------------------|--------------------|------------------|-------|---------------|-------|------------------------------|---------------------------|-------------------|---------------------------|------------------------------|--------------------|
|                                      |            |                 | Length of record, years          | Annual mean | Highest | Date    | Lowest | Date     | Length of record, years | Total for the year | Greatest monthly | Month | Least monthly | Month |                              | Total snowfall (unmelted) | Number clear days | Number partly cloudy days |                              | Number cloudy days |
| The Highlands and Kittatinny Valley. |            |                 |                                  |             |         |         |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belvidere                            | Warren     | 289             | 34                               | 51.0        | 103     | June 5  | -12    | Jan. 24  | 34                      | 54.24              | 8.73             | Jan.  | 0.94          | Aug.  | 55.6                         | 105                       | 223               | 55                        | 87                           | .....              |
| Charlotteburg                        | Passaic    | 719             | 33                               | 48.1        | 96      | do. 5   | -15    | do. 29   | 33                      | 47.49              | 8.07             | July  | 1.69          | Apr.  | 41.5                         | 105                       | 138               | 67                        | 160                          | w.                 |
| Culvers Lake                         | Sussex     | 848             | .....                            | .....       | .....   | .....   | -16    | do. 28   | 24                      | 44.77              | 8.72             | do.   | 2.11          | Feb.  | 52.1                         | 133                       | 182               | 81                        | 102                          | se.                |
| Dover                                | Morris     | 600             | 41                               | .....       | 99      | June 5  | -8     | do. 28   | 41                      | 52.63              | 9.20             | do.   | 1.79          | Apr.  | 39.0                         | 112                       | .....             | .....                     | .....                        | .....              |
| Layton                               | Sussex     | 480             | 24                               | 48.3        | 99      | June 5  | -20    | Jan. 28  | 24                      | 41.02              | 7.75             | July  | 1.61          | Aug.  | 38.8                         | 119                       | 169               | 52                        | 144                          | sw.                |
| Newton                               | Sussex     | 769             | 42                               | .....       | .....   | .....   | -12    | do. 28   | 39                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Phillipsburg                         | Warren     | 363             | 34                               | .....       | 99      | June 6† | -8     | do. 28†  | 42                      | .....              | 9.41             | July  | .....         | ..... | 40.6                         | 99                        | 171               | 92                        | 102                          | .....              |
| Sussex                               | Sussex     | 442             | 27                               | .....       | 96      | do. 3†  | -16    | do. 28   | 30                      | .....              | .....            | ..... | .....         | ..... | 40.4                         | .....                     | .....             | .....                     | .....                        | nw.                |
| Means and extremes                   |            | .....           | .....                            | 49.1        | 103     | June 5  | -20    | Jan. 28  | .....                   | 48.03              | 9.41             | July  | 0.94          | Aug.  | 44.0                         | 112                       | 177               | 69                        | 119                          | nw.                |
| The Red Sandstone Plain.             |            |                 |                                  |             |         |         |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Bergen Point                         | Hudson     | 37              | 28                               | 53.2        | 99      | June 5† | 3      | Jan. 28  | 28                      | 37.01              | 6.14             | July  | 1.45          | Aug.  | 30.0                         | 108                       | 76                | 206                       | 83                           | nw.                |
| Boonton                              | Morris     | 400             | 17                               | 49.0        | 99      | do. 5†  | -7     | do. 28   | 35                      | 45.76              | 8.09             | do.   | 1.31          | Apr.  | .....                        | 118                       | .....             | .....                     | .....                        | nw.                |
| Chatham                              | Morris     | 185             | .....                            | .....       | .....   | .....   | .....  | .....    | 21                      | 52.20              | 8.45             | do.   | 1.47          | Aug.  | .....                        | 105                       | 217               | 106                       | 42                           | .....              |
| Elizabeth                            | Union      | 45              | 45                               | .....       | 101     | June 6  | -4     | Jan. 28  | 46                      | 43.70              | 6.56             | do.   | 1.64          | do.   | 36.7                         | 116                       | .....             | .....                     | .....                        | .....              |
| Flemington                           | Hunterdon  | 140             | 28                               | 52.3        | 100     | June 4  | -9     | Jan. 29  | 39                      | 43.41              | 6.10             | July  | 2.30          | June  | 39.0                         | 125                       | 215               | 53                        | 97                           | w.                 |
| Highwood                             | Bergen     | 90              | 35                               | 50.4        | 97      | do. 4†  | -6     | do. 28   | 37                      | 49.01              | 8.21             | do.   | 1.83          | Apr.  | 37.4                         | 114                       | 117               | 117                       | 131                          | nw.                |
| Jersey City                          | Hudson     | 10              | 27                               | 53.5        | 101     | do. 5†  | -3     | do. 28   | 27                      | 41.12              | 6.25             | do.   | 1.53          | Aug.  | 33.5                         | 116                       | 115               | 156                       | 94                           | uw.                |
| Lambertville                         | Hunterdon  | 370             | 38                               | 51.6        | 97      | do. 5†  | -5     | do. 28   | 38                      | 46.13              | 8.60             | do.   | 1.61          | do.   | 36.7                         | 123                       | 179               | 75                        | 111                          | sw.                |
| Little Falls                         | Passaic    | 180             | 11                               | 50.5        | 101     | June 5  | -12    | Jan. 28  | 22                      | 49.69              | 7.05             | July  | 1.29          | Aug.  | 37.6                         | 120                       | 169               | 93                        | 103                          | nw.                |
| New Brunswick                        | Middlesex  | 110             | 68                               | 52.5        | 97      | do. 4†  | -5     | do. 28   | 72                      | 36.57              | 5.22             | Oct.  | 2.01          | June  | 23.6                         | 105                       | 180               | 90                        | 95                           | n.                 |
| New Milford                          | Bergen     | 9               | .....                            | .....       | .....   | .....   | .....  | .....    | 7                       | .....              | 8.02             | July  | 1.11          | Aug.  | .....                        | 110                       | .....             | .....                     | .....                        | .....              |
| Paterson                             | Passaic    | 80              | 50                               | 53.2        | 101     | June 4† | -5     | Jan. 28  | 54                      | 47.27              | 6.71             | do.   | 1.28          | do.   | 38.0                         | 110                       | 152               | 40                        | 173                          | nw.                |
| Plainfield                           | Union      | 120             | 34                               | 50.7        | 100     | June 6  | -9     | Jan. 29  | 37                      | 43.60              | 6.34             | July  | 1.96          | Apr.  | 38.8                         | 121                       | 137               | 134                       | 94                           | nw.                |
| Ridgefield                           | Bergen     | 80              | 8                                | .....       | 97      | do. 5†  | .....  | .....    | 8                       | .....              | 6.36             | do.   | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | nw.                |
| Somerville                           | Somerset   | 70              | 41                               | 52.2        | 99      | do. 4†  | -6     | Jan. 15† | 42                      | 42.88              | 6.93             | do.   | 1.76          | June  | 38.1                         | 101                       | 231               | 38                        | 96                           | w.                 |
| South Orange                         | Essex      | 200             | 55                               | 51.5        | 97      | do. 5   | -3     | Jan. 28  | 55                      | 45.98              | 8.34             | do.   | 1.46          | Feb.  | 48.1                         | 106                       | 145               | 106                       | 114                          | w.                 |
| Woodcliff Lake                       | Bergen     | 100             | .....                            | .....       | .....   | .....   | .....  | .....    | 7                       | .....              | 7.54             | do.   | 1.03          | Aug.  | .....                        | 96                        | .....             | .....                     | .....                        | .....              |
| New York, N. Y.                      | .....      | 365             | 55                               | 52.8        | 96      | June 6  | -1     | Jan. 28  | 55                      | 36.52              | 6.05             | July  | 1.64          | Aug.  | 27.2                         | 117                       | 80                | 159                       | 126                          | nw.                |
| Means and extremes                   |            | .....           | .....                            | 51.7        | 101     | June 4† | -12    | Jan. 28  | .....                   | 44.60              | 8.60             | July  | 1.03          | Aug.  | 36.5                         | 112                       | 161               | 101                       | 103                          | nw.                |
| The Southern Interior.               |            |                 |                                  |             |         |         |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belle Plain                          | Cape May   | 30              | 30                               | 53.0        | 102     | June 6  | 4      | Jan. 24† | 31                      | 40.12              | 10.09            | July  | 0.74          | Sept. | 7.0                          | 116                       | .....             | .....                     | .....                        | .....              |
| Bridgeton                            | Cumberland | 90              | 39                               | .....       | 100     | do. 5†  | 0      | Jan. 28  | 44                      | .....              | 7.14             | do.   | 0.88          | June  | 15.9                         | .....                     | .....             | .....                     | .....                        | .....              |
| Burlington                           | Burlington | 12              | 13                               | .....       | 102     | do. 5†  | -4     | do. 28   | 39                      | .....              | 7.37             | do.   | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Clayton                              | Gloucester | 130             | 25                               | .....       | .....   | .....   | -6     | do. 28   | 28                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Freehold                             | Monmouth   | 180             | .....                            | .....       | .....   | .....   | .....  | .....    | .....                   | .....              | 8.79             | July  | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Hammononton                          | Atlantic   | 103             | .....                            | .....       | .....   | .....   | .....  | .....    | 23                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Hightstown                           | Mercer     | 120             | 31                               | .....       | 98      | June 3† | -6     | Jan. 28  | 32                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Imlaystown                           | Monmouth   | 115             | 34                               | .....       | 99      | do. 5   | 0      | do. 15   | 37                      | .....              | 6.12             | July  | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Indian Mills                         | Burlington | 76              | 36                               | .....       | 102     | June 5  | -1     | Jan. 28  | 35                      | 44.91              | 9.62             | July  | 2.04          | Aug.  | 17.0                         | 101                       | .....             | .....                     | .....                        | sw.                |
| Lakewood                             | Ocean      | 54              | 21                               | 52.6        | 100     | do. 5   | -1     | do. 28   | 21                      | 40.96              | 8.32             | do.   | 1.35          | Feb.  | 12.0                         | 114                       | 171               | 70                        | 124                          | nw.                |
| Moorestown                           | Burlington | 75              | 62                               | 54.2        | 101     | do. 6   | -3     | do. 28   | 62                      | 38.54              | 9.08             | do.   | 1.08          | Dec.  | 22.0                         | 89                        | 166               | 104                       | 95                           | nw.                |
| Northfield                           | Atlantic   | 25              | .....                            | .....       | .....   | .....   | .....  | .....    | 18                      | 35.56              | 7.58             | do.   | 1.29          | Feb.  | 3.9                          | 115                       | .....             | .....                     | .....                        | .....              |
| Pleasantville                        | Atlantic   | 26              | 2                                | 52.4        | 98      | June 5† | 5      | Jan. 24  | 27                      | 37.02              | 8.09             | July  | 1.26          | Feb.  | .....                        | 112                       | 194               | 105                       | 66                           | s.                 |
| Runyon                               | Middlesex  | 18              | 2                                | .....       | 100     | do. 5   | -9     | do. 15   | 2                       | 35.40              | 4.59             | Oct.  | 1.75          | Aug.  | .....                        | 106                       | 187               | 129                       | 49                           | w.                 |
| Trenton                              | Mercer     | 190             | 53                               | 53.5        | 99      | do. 7   | -1     | Jan. 28  | 53                      | 33.44              | 5.15             | July  | 0.72          | June  | 21.3                         | 114                       | 88                | 132                       | 145                          | nw.                |
| Tuckerton                            | Ocean      | 23              | 27                               | 53.9        | 101     | do. 5   | -1     | Dec. 27  | 32                      | 37.72              | 9.60             | do.   | 1.33          | Feb.  | 4.5                          | 104                       | 220               | 82                        | 63                           | w.                 |
| Vineland                             | Cumberland | 109             | 56                               | .....       | .....   | .....   | 1      | Jan. 28  | 56                      | .....              | 7.75             | do.   | 0.64          | Sept. | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Philadelphia, Pa.                    | .....      | 117             | 54                               | 56.0        | 100     | June 5  | 3      | Jan. 28  | 54                      | 32.40              | 4.99             | July  | 0.96          | Dec.  | 13.3                         | 108                       | 118               | 127                       | 120                          | nw.                |
| Means and extremes                   |            | .....           | .....                            | 53.3        | 102     | June 5† | -9     | Jan. 15  | .....                   | 38.19              | 10.09            | July  | 0.64          | Sept. | 13.0                         | 108                       | 171               | 104                       | 90                           | nw.                |
| The Sea Coast.                       |            |                 |                                  |             |         |         |        |          |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Asbury Park                          | Monmouth   | 22              | 35                               | .....       | 99      | June 6  | 4      | Jan. 24† | 36                      | 38.09              | 7.21             | July  | 1.52          | Feb.  | 15.7                         | 104                       | 214               | 103                       | 48                           | nw                 |
| Atlantic City                        | Atlantic   | 16              | 52                               | 51.0        | 95      | May 23† | 7      | do. 28   | 52                      | 34.99              | 7.06             | do.   | 1.05          | Sept. | 4.3                          | 117                       | 152               | 103                       | 110                          | w.                 |
| Cape May City                        | Cape May   | 17              | 41                               | 55.0        | 97      | June 6  | 8      | Jan. 28  | 41                      | 33.16              | 5.34             | Jan.  | 0.49          | May   | 5.2                          | 122                       | 139               | 82                        | 144                          | s.                 |
| Long Branch                          | Monmouth   | 25              | 18                               | .....       | 99      | do. 6   | 3      | do. 24   | 18                      | .....              | 7.56             | July  | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Sandy Hook                           | Monmouth   | 22              | 27                               | 52.8        | 96      | do. 5   | 4      | do. 28   | 27                      | 34.28              | 4.78             | do.   | 1.19          | Aug.  | 16.7                         | 118                       | 106               | 139                       | 120                          | s.                 |
| Means and extremes                   |            | .....           | .....                            | 53.9        | 99      | June 6  | 3      | Jan. 24  | .....                   | 35.13              | 7.56             | July  | 0.49          | May   | 10.5                         | 115                       | 153               | 107                       | 105                          | s.                 |
| For the State                        |            | .....           | .....                            | 52.1        | 103     | June 5  | -20    | Jan. 28  | .....                   | 42.15              | 10.09            | July  | 0.49          | May   | 25.4                         | 111                       | 165               | 97                        | 103                          | nw.                |

† Also on other dates



Monthly and Annual Precipitation for the Year 1925, with Departures from the Normal

| STATIONS                                    | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|---------------------------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
|                                             | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| <i>The Highlands and Kittatinny Valley.</i> |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belvidere .....                             | 8.73          | +5.19     | 3.30          | -0.54     | 3.51          | -0.34     | 2.48          | -1.18     | 4.94          | +1.11     | 4.62          | +0.62     | 6.61          | +1.63     | 0.94          | -3.67     | 58.1          | +2.04     | 5.58          | +1.91     | 4.07          | +0.83     | 3.65          | -0.42     | 54.24         | +7.18     |
| Charlotteburg .....                         | 2.88          | -0.67     | 3.57          | -0.05     | 4.63          | +0.43     | 1.69          | -2.63     | 3.38          | -0.82     | 4.48          | +0.36     | 8.07          | +3.24     | 1.82          | -2.80     | 3.56          | -0.86     | 4.38          | -0.09     | 5.06          | +1.54     | 3.57          | -0.76     | 47.49         | -3.11     |
| Culvers Lake .....                          | 2.83          | -0.35     | 2.11          | -0.95     | 3.78          | +0.31     | 2.44          | -1.38     | 3.97          | +0.34     | 3.79          | -0.82     | 8.72          | +4.15     | 4.05          | -0.37     | 3.32          | -1.22     | 4.28          | +0.10     | 3.04          | +0.24     | 2.44          | -1.22     | 44.77         | -1.17     |
| Dover .....                                 | 4.05          | -0.34     | 4.64          | +0.61     | 4.46          | +0.47     | 1.79          | -1.97     | 4.09          | +0.15     | 3.92          | -0.11     | 9.20          | +3.93     | 2.48          | -2.28     | 3.83          | -0.26     | 3.83          | -0.26     | 5.10          | +1.46     | 3.89          | -0.41     | 52.63         | +2.86     |
| Layton .....                                | 2.89          | 0.00      | 2.56          | -0.18     | 3.72          | +0.35     | 2.01          | -1.60     | 4.03          | +0.78     | 3.52          | -0.27     | 7.75          | +3.49     | 1.61          | -2.29     | 2.76          | -1.16     | 3.56          | -0.06     | 4.33          | +1.84     | 2.28          | -1.66     | 41.02         | -0.76     |
| Newton .....                                | 3.66          | +0.05     | 3.04          | -0.52     | .....         | .....     | 1.72          | -1.65     | 3.44          | -0.49     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | 2.13          | -1.58     | .....         | .....     |
| Phillipsburg .....                          | 5.83          | +2.23     | 2.52          | -1.12     | .....         | .....     | .....         | .....     | 2.52          | -1.34     | 2.46          | -1.47     | 9.41          | +4.56     | 2.21          | -2.41     | 3.74          | +0.08     | 5.05          | +1.49     | 2.89          | -0.31     | 2.81          | -0.93     | .....         | .....     |
| Sussex .....                                | 5.05          | +1.57     | 3.32          | -0.06     | 4.20          | +0.61     | 2.31          | -1.13     | 4.63          | +0.91     | 3.72          | +0.04     | .....         | .....     | .....         | .....     | 4.60          | +0.70     | 4.18          | +0.74     | 3.02          | -0.23     | 2.21          | -1.35     | .....         | .....     |
| <i>The Red Sandstone Plain.</i>             |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Bergen Point .....                          | 4.26          | +0.37     | 2.15          | -1.83     | 3.30          | -0.70     | 2.04          | -2.35     | 2.49          | -1.47     | 3.16          | -0.62     | 6.14          | +1.53     | 1.45          | -3.61     | 1.77          | -1.76     | 4.92          | +0.25     | 2.85          | -0.42     | 2.48          | -1.90     | 37.01         | -12.51    |
| Boonton .....                               | 2.83          | -1.00     | 2.92          | -1.05     | 4.49          | +0.55     | 1.31          | -2.68     | 4.23          | +0.17     | 4.64          | +0.97     | 8.09          | +3.19     | 1.95          | -3.13     | 3.65          | -0.48     | 4.60          | +0.69     | 4.15          | +0.55     | 2.90          | -1.08     | 45.76         | -3.27     |
| Chatham .....                               | 5.63          | +1.94     | 4.10          | +0.67     | 5.71          | +1.97     | 2.24          | -1.86     | 2.20          | -1.30     | 6.16          | +2.10     | 8.45          | +4.01     | 1.47          | -2.94     | 3.50          | -0.74     | 4.27          | -0.06     | 4.25          | +1.35     | 4.22          | +0.05     | 52.20         | +5.26     |
| Elizabeth .....                             | 5.55          | +1.51     | 2.34          | -1.83     | 3.85          | -0.37     | 2.27          | -1.41     | 2.66          | -1.16     | 3.67          | +0.05     | 6.56          | +1.40     | 1.64          | -2.65     | 2.63          | -1.14     | 5.28          | +0.39     | 3.33          | +0.08     | 3.92          | -0.04     | 43.70         | -4.17     |
| Flemington .....                            | 4.13          | +0.44     | 2.41          | -1.13     | 4.53          | +0.64     | 2.80          | -0.72     | 2.93          | -1.09     | 2.30          | -1.54     | 6.10          | +0.88     | 2.47          | -2.24     | 4.65          | +0.75     | 5.50          | +1.84     | 2.87          | -0.25     | 2.72          | -1.04     | 43.41         | -3.46     |
| Highwood .....                              | 5.52          | +1.57     | 2.81          | -1.45     | 4.97          | +0.79     | 1.83          | -1.60     | 4.06          | +0.23     | 4.22          | +0.53     | 8.21          | +3.26     | 1.99          | -2.76     | 3.44          | -0.48     | 4.60          | +0.18     | 4.17          | +0.67     | 3.19          | -1.02     | 49.01         | -0.08     |
| Jersey City .....                           | 5.93          | +2.43     | 2.04          | -1.68     | 4.05          | -0.10     | 1.95          | -2.21     | 3.83          | -0.75     | 3.25          | -0.25     | 6.25          | +1.81     | 1.53          | -3.00     | 2.11          | -1.24     | 4.48          | +0.80     | 3.44          | +0.25     | 3.26          | -0.67     | 41.12         | -4.61     |
| Lambertville .....                          | 5.65          | +2.00     | 2.21          | -1.27     | 3.61          | -0.42     | 2.80          | -0.78     | 2.88          | -1.14     | 2.20          | -1.71     | 8.60          | +3.78     | 1.61          | -3.05     | 4.55          | +0.66     | 5.74          | +2.26     | 3.71          | +0.50     | 2.57          | -1.30     | 46.13         | -0.47     |
| Little Falls .....                          | 4.45          | +0.75     | 3.21          | -0.26     | 6.09          | +2.50     | 2.06          | -2.06     | 3.69          | -0.10     | 5.70          | +2.18     | 7.05          | +2.66     | 1.29          | -3.11     | 3.19          | +0.39     | 4.60          | +0.09     | 4.66          | +1.76     | 3.70          | -0.39     | 49.69         | +3.63     |
| New Brunswick .....                         | 3.62          | -0.17     | 2.21          | -1.41     | 3.17          | -0.64     | 2.80          | -0.94     | 2.94          | -0.95     | 2.01          | -1.75     | 4.36          | -0.68     | 2.07          | -3.08     | 3.42          | -0.18     | 5.22          | +1.64     | 2.48          | -1.00     | 2.27          | -1.40     | 36.57         | -10.56    |
| New Milford .....                           | .....         | .....     | 2.58          | .....     | 4.77          | .....     | 1.74          | .....     | 3.67          | .....     | 3.35          | .....     | 8.02          | .....     | .....         | .....     | 3.35          | .....     | 4.43          | .....     | 3.35          | .....     | 3.10          | .....     | .....         | .....     |
| Paterson .....                              | 4.37          | +0.52     | 2.77          | -1.44     | 5.47          | +1.09     | 2.19          | -1.37     | 3.41          | -1.00     | 5.50          | +1.38     | 6.71          | +1.69     | 1.28          | -3.45     | 4.33          | +0.30     | 4.96          | +0.87     | 3.51          | +0.34     | 2.74          | -1.32     | 47.27         | -2.49     |
| Plainfield .....                            | 5.16          | +1.14     | 2.21          | -1.75     | 4.10          | -0.17     | 1.96          | -1.94     | 2.95          | -0.97     | 3.18          | -0.56     | 6.34          | +0.51     | 2.21          | -3.00     | 3.77          | -0.60     | 5.58          | +1.43     | 3.34          | -0.03     | 2.80          | -1.26     | 43.60         | -7.20     |
| Ridgefield .....                            | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | 2.96          | .....     | 3.30          | .....     | 6.36          | .....     | 1.79          | .....     | 2.12          | .....     | 5.02          | .....     | 3.12          | .....     | 3.04          | .....     | .....         | .....     |
| Somerville .....                            | 3.68          | -0.04     | 2.28          | -1.50     | 4.18          | +0.22     | 2.55          | -0.94     | 3.88          | -0.77     | 1.76          | -1.98     | 6.93          | +1.82     | 2.60          | -2.24     | 4.46          | +1.11     | 5.19          | +1.75     | 3.64          | +0.50     | 2.33          | -1.52     | 42.88         | -3.59     |
| South Orange .....                          | 4.53          | +0.50     | 1.46          | -2.47     | 2.70          | -1.16     | 2.14          | -1.43     | 3.24          | -0.32     | 5.17          | +1.62     | 8.34          | +3.33     | 1.53          | -3.55     | 3.43          | -0.38     | 5.78          | +1.94     | 3.63          | +0.33     | 4.03          | +0.11     | 45.98         | -1.48     |
| Woodcliff Lake .....                        | .....         | .....     | 2.64          | .....     | 4.33          | .....     | 1.49          | .....     | 3.89          | .....     | 2.66          | .....     | 7.54          | .....     | .....         | .....     | 3.45          | .....     | 3.50          | .....     | 2.94          | .....     | 2.46          | .....     | .....         | .....     |
| New York, N. Y. ....                        | 5.30          | +1.51     | 1.92          | -1.82     | 3.25          | -0.85     | 1.73          | -1.57     | 2.43          | -0.75     | 2.31          | -0.95     | 6.05          | +1.51     | 1.64          | -2.89     | 1.87          | -1.22     | 4.13          | +0.42     | 2.56          | -0.88     | 3.33          | -0.12     | 36.52         | -8.11     |
| <i>The Southern Interior.</i>               |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belleplain .....                            | 4.67          | +1.14     | 1.42          | -2.17     | 1.63          | -2.07     | 3.03          | -0.62     | 2.11          | -1.71     | 1.89          | -1.33     | 10.09         | +5.98     | 4.12          | -0.18     | 0.74          | -2.05     | 4.95          | +1.53     | 3.24          | +0.63     | 2.23          | -1.72     | 40.12         | -3.17     |
| Bridgeton .....                             | 3.50          | -0.02     | 1.67          | -2.15     | .....         | .....     | .....         | .....     | 2.53          | -1.31     | 0.88          | -2.85     | 7.14          | +2.65     | 2.33          | -2.26     | 0.90          | -2.49     | 3.83          | +0.24     | 3.24          | +0.44     | 1.09          | -2.73     | .....         | .....     |
| Burlington .....                            | 6.40          | +3.00     | 2.23          | -1.27     | 3.95          | +0.24     | 2.69          | -1.01     | 2.02          | -2.19     | 1.80          | -2.08     | 7.37          | +2.63     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Clayton .....                               | 2.54          | -0.93     | .....         | .....     | 2.80          | -0.78     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Freehold .....                              | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Hammonton .....                             | 4.22          | -0.43     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Hightstown .....                            | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Imlaystown .....                            | .....         | .....     | 1.58          | -1.96     | 3.05          | -1.03     | 2.57          | -0.87     | 1.99          | -1.63     | 2.51          | -1.26     | 6.12          | +1.36     | .....         | .....     | 2.71          | +1.11     | 4.98          | +1.12     | .....         | .....     | 1.78          | -1.89     | .....         | .....     |
| Indian Mills .....                          | 4.49          | +0.67     | 2.38          | -1.07     | 2.61          | -1.42     | 5.35          | -0.08     | 2.80          | -0.44     | 2.61          | -1.52     | 9.62          | +4.96     | 2.04          | -3.89     | 3.41          | -0.50     | 5.69          | +2.25     | 3.67          | +0.59     | 2.24          | -2.16     | 44.91         | -2.61     |
| Lakewood .....                              | 5.15          | +1.47     | 1.35          | -2.22     | 2.26          | -1.72     | 2.94          | -0.73     | 2.55          | -0.85     | 1.43          | -2.28     | 8.32          | +3.47     | 2.14          | -3.91     | 1.86          | -0.93     | 4.73          | +1.14     | 3.65          | +1.19     | 4.58          | -0.06     | 40.96         | -5.43     |
| Moorestown .....                            | 5.27          | +1.81     | 1.45          | -2.03     | 3.44          | -0.32     | 2.53          | -0.76     | 1.87          | -2.15     | 1.62          | -2.10     | 9.08          | +4.40     | 1.36          | -3.53     | 2.58          | -1.05     | 5.23          | +1.66     | 3.03          | -0.22     | 1.08          | -2.61     | 38.54         | -6.90     |
| Northfield .....                            | 3.93          | +0.40     | 1.29          | -1.50     | 1.50          | -1.99     | 2.86          | -0.60     | 1.80          | -1.67     | 2.26          | -1.41     | 7.58          | +3.98     | 2.95          | -1.40     | 1.87          | -0.63     | 3.38          | +0.60     | 2.84          | +0.46     | 3.30          | -0.82     | 35.56         | -4.58     |
| Pleasantville .....                         | 3.73          | +0.57     | 1.26          | -1.55     | 1.76          | -1.71     | 2.99          | -0.36     | 1.79          | -1.47     | 1.89          | -2.04     | 8.09          | +4.11     | 3.84          | -1.09     | 1.51          | -1.01     | 3.65          | +0.21     | 3.00          | +0.28     | 3.51          | -0.73     | 37.02         | -5.39     |
| Runyon .....                                | 3.38          | .....     | 2.02          | .....     | 3.22          | .....     | 2.18          | .....     | 2.81          | .....     | 2.40          | .....     | 4.03          | .....     | 1.75          | .....     | 2.91          | .....     | 4.59          | .....     | 3.10          | .....     | 3.01          | .....     | 35.40         | .....     |
| Trenton .....                               | 4.31          | +1.14     | 2.01          | -1.18     | 3.59          | -0.45     | 2.35          | -0.94     | 2.00          | -1.52     | 0.72          | -2.77     | 5.15          | +0.38     | 1.15          | -4.22     | 3.01          | +0.32     | 3.97          | +0.56     | 2.63          | -0.80     | 1.65          | -1.51     | 33.44         | -10.99    |
| Tuckerton .....                             | 3.90          | +0.27     | 1.33          | -2.33     | 1.99          | -2.26     | 2.54          | -1.20     | 1.43          | -2.31     | 1.39          | -2.44     | 9.60          | +5.72     | 1.86          | -3.68     | 2.32          | -0.74     | 3.44          | -0.09     | 3.54          | +0.46     | 4.38          | -0.13     | 37.72         | -8.73     |
| Vineland .....                              | 3.84          | -0.18     | 1.78          | -1.94     | 2.61          | -1.35     | 2.78          | -0.62     | 3.43          | -0.20     | .....         | .....     | 7.75          | +3.18     | 2.87          | -1.94     | 0.64          | -3.05     | 3.77          | +0.43     | 3.46          | +0.35     | 1.46          | -2.36     | .....         | .....     |
| Philadelphia, Pa. ....                      | 4.68          | +1.27     | 1.66          | -1.72     | 3.15          | -0.30     | 2.43          | -0.48     | 2.36          | -0.84     | 1.16          | -2.14     | 4.99          | +0.66     | 2.01          | -2.60     | 1.89          | -1.49     | 4.19          | +0.14     | 2.97          | -0.09     | 0.96          | -2.08     | 32.40         | -8.77     |
| <i>The Sea Coast.</i>                       |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Asbury Park .....                           | 3.28          | -0.29     | 1.52          | -1.98     | 2.51          | -1.72     | 2.80          | -0.89     | 1.95          | -1.63     | 3.84          | +0.22     | 7.21          | +2.67     | 2.70          | -2.36     | 1.55          | -1.44     | 5.14          | +1.43     | 2.95          | +0.03     | 2.64          | -1.21     | 38.09         | -7.17     |
| Atlantic City .....                         | 4.10          | +0.70     | 1.24          | -2.03     | 1.56          | -2.17     | 2.68          | -0.31     | 1.74          | -1.26     | 2.90          | -0.13     | 7.06          | +3.28     | 2.88          | -1.42     | 1.05          | -2.00     | 3.65          | +0.35     | 2.71          | -0.52     | 3.42          | -0.32     | 34.99         |           |



Monthly and Annual Mean Temperatures for the Year 1925, with Departures from the Normal

| STATIONS                                    | January     |           | February    |           | March       |           | April       |           | May         |           | June        |           | July        |           | August      |           | September   |           | October     |           | November    |           | December    |           | Annual      |           |
|---------------------------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                                             | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure |
| <i>The Highlands and Kittatinny Valley.</i> |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Belvidere.....                              | 22.2        | -5.1      | 33.2        | +6.1      | 42.2        | +4.1      | 51.7        | +1.9      | 57.6        | -3.1      | 74.0        | +5.2      | 72.1        | -1.1      | 71.4        | +0.4      | 67.3        | +2.6      | 47.4        | -6.4      | 40.4        | -0.7      | 31.9        | +1.3      | 51.0        | +0.4      |
| Charlotteburg.....                          | 22.8        | -4.1      | 33.5        | +7.9      | 39.0        | +3.2      | 48.6        | +1.8      | 53.6        | -3.9      | 68.5        | +3.7      | 67.2        | -2.8      | 66.6        | -1.3      | 63.4        | +1.5      | 45.0        | -6.6      | 38.4        | -1.7      | 30.2        | +0.4      | 48.1        | -0.2      |
| Dover.....                                  | 23.9        | -2.7      | 35.1        | +8.9      | 39.4        | +4.2      | 48.0        | +0.8      | 56.3        | -2.3      | 71.4        | +4.7      | 69.6        | -1.8      | 69.4        | +0.3      | 63.4        | +1.1      | 44.3        | -7.2      | 37.8        | -1.0      | 30.2        | +2.8      | 48.3        | +0.4      |
| Layton.....                                 | 21.6        | -3.1      | 32.4        | +8.8      | 39.8        | +4.2      | 48.0        | +0.8      | 54.3        | -3.7      | 70.2        | +4.7      | 69.0        | -1.9      | 68.2        | -0.2      | 63.4        | +1.1      | 44.3        | -7.2      | 37.8        | -1.0      | 30.2        | +2.8      | 48.3        | +0.4      |
| Newton.....                                 | 22.9        | -2.8      | 36.0        | +9.5      | 42.4        | +4.3      | 50.0        | +2.0      | 57.2        | -2.3      | 73.6        | +4.3      | 72.0        | -2.1      | 71.0        | -0.8      | 67.3        | +2.1      | 48.4        | -5.5      | 41.5        | +0.3      | 33.6        | +2.3      | 51.0        | +0.4      |
| Phillipsburg.....                           | 23.0        | -3.6      | 33.8        | +8.4      | 40.4        | +4.1      | 49.7        | +1.1      | 56.0        | -3.9      | 70.8        | +4.0      | 69.0        | -3.1      | 68.2        | -0.2      | 63.4        | +1.1      | 44.3        | -7.2      | 37.8        | -1.0      | 30.2        | +2.8      | 48.3        | +0.4      |
| Sussex.....                                 | 23.0        | -3.6      | 33.8        | +8.4      | 40.4        | +4.1      | 49.7        | +1.1      | 56.0        | -3.9      | 70.8        | +4.0      | 69.0        | -3.1      | 68.2        | -0.2      | 63.4        | +1.1      | 44.3        | -7.2      | 37.8        | -1.0      | 30.2        | +2.8      | 48.3        | +0.4      |
| <i>The Red Sandstone Plain.</i>             |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Bergen Point.....                           | 27.8        | -2.9      | 37.8        | +8.4      | 44.2        | +4.7      | 51.6        | +2.1      | 59.0        | -1.3      | 74.2        | +5.8      | 73.4        | -0.6      | 72.8        | +0.6      | 68.6        | +2.2      | 50.4        | -5.8      | 43.4        | -0.3      | 35.0        | +2.0      | 53.2        | +1.2      |
| Boonton.....                                | 22.4        | -4.9      | 32.7        | +5.6      | 39.4        | +2.8      | 49.1        | +0.4      | 54.8        | -4.4      | 70.8        | +3.2      | 69.4        | -3.1      | 69.2        | -2.1      | 64.0        | +0.4      | 46.0        | -6.8      | 38.4        | -3.0      | 31.8        | +1.3      | 49.0        | -0.9      |
| Elizabeth.....                              | 24.8        | -5.0      | 34.8        | +6.0      | 43.8        | +3.7      | 52.2        | +1.8      | 58.0        | -3.3      | 74.8        | +5.6      | 73.6        | -1.0      | 72.4        | -0.1      | 68.2        | +1.9      | 49.2        | -6.8      | 42.0        | -0.9      | 34.1        | +2.1      | 52.3        | +0.3      |
| Flemington.....                             | 24.8        | -5.0      | 34.8        | +6.0      | 43.8        | +3.7      | 52.2        | +1.8      | 58.0        | -3.3      | 74.8        | +5.6      | 73.6        | -1.0      | 72.4        | -0.1      | 68.2        | +1.9      | 49.2        | -6.8      | 42.0        | -0.9      | 34.1        | +2.1      | 52.3        | +0.3      |
| Highwood.....                               | 24.2        | -4.6      | 35.0        | +6.6      | 42.2        | +5.2      | 50.2        | +1.7      | 56.8        | -2.5      | 71.5        | +3.9      | 70.0        | -2.3      | 68.8        | -2.0      | 64.8        | +1.1      | 47.6        | -5.8      | 40.6        | -1.4      | 33.2        | +1.4      | 50.4        | +0.1      |
| Jersey City.....                            | 28.8        | -3.4      | 38.5        | +7.9      | 44.5        | +5.3      | 52.2        | +2.2      | 59.8        | -1.8      | 75.2        | +4.3      | 73.8        | -2.3      | 72.8        | -1.5      | 68.2        | +1.0      | 50.3        | -6.0      | 43.9        | -0.1      | 34.4        | +0.3      | 53.5        | +0.5      |
| Lambertville.....                           | 25.9        | -4.6      | 36.0        | +5.6      | 43.0        | +3.6      | 50.9        | +0.2      | 58.1        | -3.5      | 74.8        | +5.1      | 72.0        | -2.3      | 71.2        | -1.2      | 66.0        | +0.2      | 47.6        | -7.0      | 40.6        | -2.6      | 32.6        | +1.0      | 51.6        | -0.6      |
| Little Falls.....                           | 24.2        | -3.8      | 34.3        | +4.7      | 41.3        | +3.3      | 50.0        | +0.1      | 56.2        | -3.5      | 72.6        | +4.6      | 71.3        | -2.5      | 69.9        | -3.3      | 66.4        | +2.3      | 47.2        | -7.7      | 39.9        | -2.3      | 32.4        | +0.9      | 50.5        | -0.6      |
| New Brunswick.....                          | 27.2        | -3.0      | 37.5        | +6.7      | 43.8        | +5.0      | 51.6        | +2.0      | 57.8        | -2.6      | 74.7        | +5.6      | 72.6        | -1.4      | 71.2        | -0.9      | 68.2        | +2.6      | 49.2        | -5.6      | 42.3        | -1.1      | 33.8        | +0.6      | 52.5        | +0.7      |
| Paterson.....                               | 27.3        | -2.3      | 36.9        | +6.7      | 44.4        | +5.6      | 53.6        | +3.1      | 60.0        | -1.5      | 75.6        | +5.8      | 73.4        | -1.0      | 72.8        | +0.6      | 67.9        | +1.7      | 49.6        | -5.6      | 42.6        | -0.9      | 34.6        | +1.5      | 53.2        | +1.1      |
| Plainfield.....                             | 24.6        | -5.4      | 35.5        | +6.8      | 42.3        | +3.5      | 50.6        | +1.0      | 56.3        | -3.9      | 72.4        | +3.8      | 71.0        | -3.0      | 69.7        | -2.1      | 66.4        | +0.8      | 46.8        | -7.4      | 40.2        | -2.3      | 32.8        | +0.1      | 50.7        | -0.7      |
| Ridgefield.....                             | 24.6        | -5.4      | 35.5        | +6.8      | 42.3        | +3.5      | 50.6        | +1.0      | 56.3        | -3.9      | 72.4        | +3.8      | 71.0        | -3.0      | 69.7        | -2.1      | 66.4        | +0.8      | 46.8        | -7.4      | 40.2        | -2.3      | 32.8        | +0.1      | 50.7        | -0.7      |
| Somerville.....                             | 25.2        | -3.6      | 35.5        | +6.6      | 43.5        | +5.3      | 51.4        | +1.9      | 57.6        | -3.2      | 74.8        | +5.7      | 73.0        | -1.1      | 72.0        | -0.4      | 68.9        | +2.9      | 48.8        | -5.5      | 41.4        | -1.0      | 33.9        | +1.7      | 52.2        | +0.8      |
| South Orange.....                           | 25.5        | -3.4      | 35.6        | +6.6      | 42.3        | +5.2      | 50.6        | +2.1      | 57.6        | -2.4      | 73.1        | +4.6      | 71.2        | -2.0      | 70.2        | -0.7      | 66.4        | +2.3      | 48.4        | -5.0      | 43.0        | +1.2      | 33.6        | +1.5      | 51.5        | +0.8      |
| New York, N. Y.....                         | 29.1        | -1.8      | 38.5        | +7.2      | 43.6        | +5.9      | 51.2        | +1.8      | 58.2        | -2.4      | 73.2        | +4.4      | 72.5        | -1.3      | 71.9        | -1.2      | 67.5        | +0.7      | 49.8        | -6.5      | 43.7        | -0.5      | 34.5        | -0.5      | 52.8        | +0.5      |
| <i>The Southern Interior.</i>               |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Belleplain.....                             | 32.0        | -1.0      | 41.4        | +9.9      | 44.5        | +3.4      | 52.4        | +1.8      | 56.4        | -4.7      | 74.2        | +5.5      | 72.2        | -1.6      | 69.2        | -3.4      | 67.7        | +1.2      | 49.5        | -6.8      | 42.0        | -2.5      | 34.6        | -0.5      | 53.0        | +0.1      |
| Bridgeton.....                              | 31.2        | -2.5      | 41.7        | +8.0      | 44.8        | +4.4      | 53.4        | +1.6      | 59.8        | -5.0      | 76.7        | +4.6      | 75.3        | -1.4      | 72.2        | -2.8      | 70.5        | +2.3      | 51.0        | -6.4      | 43.0        | -2.6      | 35.7        | -0.5      | 53.0        | +0.1      |
| Burlington.....                             | 28.8        | -3.5      | 39.3        | +8.0      | 44.8        | +4.4      | 53.4        | +1.6      | 59.8        | -5.0      | 76.7        | +4.6      | 75.3        | -1.4      | 72.2        | -2.8      | 70.5        | +2.3      | 51.0        | -6.4      | 43.0        | -2.6      | 35.7        | -0.5      | 53.0        | +0.1      |
| Clayton.....                                | 28.6        | -3.5      | 39.3        | +8.0      | 44.8        | +4.4      | 53.4        | +1.6      | 59.8        | -5.0      | 76.7        | +4.6      | 75.3        | -1.4      | 72.2        | -2.8      | 70.5        | +2.3      | 51.0        | -6.4      | 43.0        | -2.6      | 35.7        | -0.5      | 53.0        | +0.1      |
| Hightstown.....                             | 26.8        | -3.1      | 37.4        | +8.0      | 43.8        | +3.4      | 52.0        | +1.5      | 58.2        | -3.1      | 74.4        | +5.4      | 72.2        | -1.6      | 69.2        | -3.4      | 67.7        | +1.2      | 49.5        | -6.8      | 42.0        | -2.5      | 34.6        | -0.5      | 53.0        | +0.1      |
| Imlaystown.....                             | 29.5        | -3.5      | 39.3        | +8.0      | 44.8        | +4.4      | 53.4        | +1.6      | 59.8        | -5.0      | 76.7        | +4.6      | 75.3        | -1.4      | 72.2        | -2.8      | 70.5        | +2.3      | 51.0        | -6.4      | 43.0        | -2.6      | 35.7        | -0.5      | 53.0        | +0.1      |
| Indian Mills.....                           | 29.0        | -2.3      | 39.1        | +9.4      | 43.5        | +3.9      | 51.1        | +1.7      | 57.4        | -2.8      | 74.9        | +7.4      | 72.6        | -0.2      | 70.8        | -0.3      | 68.3        | +3.7      | 49.0        | -6.1      | 41.2        | -1.6      | 34.1        | +0.6      | 52.6        | +1.1      |
| Lakewood.....                               | 29.0        | -2.3      | 39.1        | +9.4      | 43.5        | +3.9      | 51.1        | +1.7      | 57.4        | -2.8      | 74.9        | +7.4      | 72.6        | -0.2      | 70.8        | -0.3      | 68.3        | +3.7      | 49.0        | -6.1      | 41.2        | -1.6      | 34.1        | +0.6      | 52.6        | +1.1      |
| Moorestown.....                             | 29.9        | -0.8      | 40.7        | +9.4      | 45.6        | +6.4      | 53.2        | +2.8      | 59.2        | -2.1      | 76.4        | +6.4      | 73.6        | -1.1      | 72.1        | -0.5      | 70.4        | +4.4      | 50.6        | -4.1      | 43.6        | +0.4      | 35.2        | +1.7      | 54.2        | +1.9      |
| Pleasantville.....                          | 31.3        | -3.6      | 40.7        | +9.4      | 45.6        | +6.4      | 53.2        | +2.8      | 59.2        | -2.1      | 76.4        | +6.4      | 73.6        | -1.1      | 72.1        | -0.5      | 70.4        | +4.4      | 50.6        | -4.1      | 43.6        | +0.4      | 35.2        | +1.7      | 54.2        | +1.9      |
| Runyon.....                                 | 25.1        | -3.6      | 36.4        | +6.4      | 42.5        | +4.9      | 49.6        | +2.0      | 56.2        | -3.0      | 73.0        | +5.0      | 71.4        | -1.5      | 70.1        | -0.8      | 68.6        | +1.7      | 49.7        | -5.9      | 43.0        | -1.4      | 34.4        | +0.0      | 53.5        | +1.1      |
| Trenton.....                                | 29.4        | -1.1      | 40.2        | +9.5      | 45.0        | +5.9      | 51.8        | +2.0      | 59.4        | -1.7      | 75.2        | +5.7      | 73.3        | -1.2      | 72.2        | -0.8      | 68.6        | +1.7      | 49.7        | -5.9      | 43.0        | -1.4      | 34.4        | +0.0      | 53.5        | +1.1      |
| Tuckerton.....                              | 31.8        | -0.8      | 39.8        | +9.0      | 43.8        | +3.8      | 52.5        | +3.2      | 58.2        | -1.7      | 74.8        | +6.4      | 72.8        | -1.3      | 72.5        | -0.2      | 69.7        | +3.5      | 51.8        | -4.3      | 43.2        | -0.9      | 35.8        | +1.4      | 53.9        | +1.5      |
| Vineland.....                               | 32.2        | 0.0       | 42.8        | +10.3     | 47.1        | +6.6      | 55.2        | +4.2      | 60.1        | -2.2      | 74.2        | +5.8      | 72.5        | -0.4      | 71.9        | -0.6      | 70.0        | +3.2      | 52.6        | -4.3      | 45.4        | -0.2      | 36.4        | +0.0      | 54.0        | +1.7      |
| Philadelphia, Pa.....                       | 31.8        | -0.8      | 42.2        | +8.3      | 46.3        | +5.5      | 55.0        | +2.9      | 61.6        | -1.3      | 78.1        | +6.7      | 76.2        | 0.0       | 74.8        | 0.0       | 71.2        | +3.2      | 52.2        | -5.6      | 45.4        | -0.8      | 36.6        | +0.3      | 56.0        | +1.6      |
| <i>The Sea Coast.</i>                       |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Asbury Park.....                            | 31.0        | -1.2      | 38.2        | +6.8      | 42.6        | +3.6      | 50.4        | +3.4      | 57.8        | -0.7      | 72.5        | +4.7      | 73.0        | +0.7      | 72.8        | 0.0       | 68.5        | +1.4      | 51.0        | -6.0      | 44.0        | -0.6      | 35.0        | +0.6      | 52.8        | +1.1      |
| Atlantic City.....                          | 34.4        | +1.9      | 39.8        | +6.2      | 43.8        | +5.2      | 51.0        | +3.2      | 58.0        | -0.1      | 72.4        | +5.8      | 72.5        | +0.4      | 71.9        | -0.6      | 70.0        | +3.2      | 52.6        | -4.3      | 45.4        | -0.2      | 36.4        | +0.0      | 54.0        | +1.7      |
| Cape May City.....                          | 34.7        | +0.6      | 40.2        | +6.1      | 44.6        | +3.8      | 52.3        | +3.9      | 59.4        | +0.8      | 73.2        | +5.5      | 71.4        | +1.0      | 72.5        | -0.9      | 71.0        | +2.0      | 53.8        | -5.8      | 45.8        | -1.6      | 37.8        | -0.2      | 55.0        | +1.3      |
| Long Branch.....                            | 30.0        | -1.6      | 37.2        | +6.8      | 42.8        | +4.3      | 50.4        | +2.3      | 57.2        | -1.0      | 71.6        | +5.4      | 71.0        | -1.1      | 70.7        | -0.3      | 68.5        | +1.4      | 51.0        | -6.0      | 44.0        | -0.6      | 35.0        | +0.6      | 52.8        | +1.1      |
| Sandy Hook.....                             | 29.1        | -1.7      | 36.8        | +6.2      | 42.6        | +5.6      | 50.4        | +3.4      | 57.8        | -0.7      | 72.5        | +4.7      | 73.0        | +0.7      | 72.8        | 0.0       | 68.5        | +1.4      | 51.0        | -6.0      | 44.0        | -0.6      | 35.0        | +0.6      | 52.8        | +1.1      |

Letters of alphabet denote number of days missing



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXI.

JANUARY, 1926.

No. 1

### GENERAL SUMMARY.

For the mid-winter month the weather of January was more than ordinarily pleasant. There was but little rain and snow, and there was about a normal amount of sunshine. Two cold periods prevailed, one from the 8th to the 14th, and the other from the 23d to the 29th. On the coldest day, the 29th, the minima were below zero only in the northernmost portions of the State. This low temperature was sufficient to keep ponds closed with ice, but the Delaware River was open from the 19th to the 27th when it again closed. The first and third weeks were slightly warmer than normal and this more than offset the cold periods so that the month as a whole afforded a slight excess in warmth.

A light snowstorm on the 9th measured some two inches in northern portions, and progressively less to the southward where there was no more than trace; this snow remained on the ground several days before vanishing. Another snow of lighter volume set in on the afternoon of the 27th and continued to the forenoon of the 28th when it reacted to clearing and was attended by northwesterly gales all day. This, in turn, was followed by the cold wave of the 27-28th, when the coldest weather of the month occurred. Other cold waves on the 13th and 22d were not important. Storm warnings were displayed along the coast on the 8th, 18th, from the 21st to 24th, 28th and 31st.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 36 stations, was 30.8°, which was 0.6° above normal. The highest temperature was 63° at Pleasantville and Vineland on the 20th, and the lowest, 9° below zero, at Newton on the 29th. The greatest daily range of temperature was 42° at Layton on the 11th, and at Charlotteburg on the 17th. The highest monthly mean temperature was 34.6° at Cape May City, and the lowest, 26.0° at Layton.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, +1.3°; Red Sandstone Plain, +0.4°; Southern Interior, +0.3°; Sea Coast, +1.0°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 42 stations, was 2.61 inches, which was 1.04 inches below normal. The average total snowfall at eighteen selected stations was 2.4 inches, which was 5.0 inches below normal. The greatest monthly precipitation was 4.04 inches at Highwood, and the least, 1.63 inches at Boonton. The greatest amount of precipitation in any 24 consecutive hours was 1.98 inches at Highwood on the 17-18th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.44 inches; Red Sandstone Plain, -1.30 inches; Southern Interior, -0.74 inch; Sea Coast, -0.80 inch.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 15 miles per hour, which was 1 mile above normal. The highest velocity, sustained for 5 consecutive minutes, was 72 miles per hour from the east at Atlantic City on the 9th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which was normal; partly cloudy, 8, or 1 less than normal, cloudy, 12, or 1 more than normal. The per cent of possible sunshine was 51, which was 1 per cent above normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 30.04 inches, which was 0.07 inch below normal. The highest reading was 30.56 inches at Cape May City on the 29th, and the lowest, 29.31 inches at Sandy Hook on the 18th.

The mean of the Delaware river at Phillipsburg was 3.8 feet for 21 days. The highest stage was 6.0 feet on the 19th. At Trenton the river was frozen most of the month.

Dense fog occurred on the 4th, 5th, 6th, 9th, 18th and 21st. Thunder was heard at three stations on the 18th. Sleet fell on the 8th, 9th, 22d, and 28th. Solar halos were observed on the 1st, 13th, 17th, 27th, and 30th; and lunar halos on the 19th, 20th, 26th, 28th, 29th and 30th.

### COMPARATIVE DATA FOR JANUARY

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 30.8        | 67      | 0      | 4.08          | 5.41      | 3.33  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 27.3        | 60      | -10    | 4.47          | 5.59      | 3.08  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 28.4        | 67      | -6     | 3.86          | 6.65      | 2.00  | .....    | .....       | .....         | .....  | .....                  |
| 1888..... | 25.4        | 59      | -12    | 4.77          | 6.74      | 2.80  | .....    | .....       | .....         | .....  | .....                  |
| 1889..... | 36.2        | 60      | 8      | 5.68          | 8.78      | 3.84  | .....    | .....       | .....         | .....  | .....                  |
| 1890..... | 41.3        | 78      | 12     | 2.29          | 3.22      | 1.05  | .....    | .....       | .....         | .....  | .....                  |
| 1891..... | 34.2        | 59      | 10     | 6.57          | 10.55     | 4.41  | .....    | 10          | 11            | 10     | 10                     |
| 1892..... | 29.9        | 67      | -6     | 5.13          | 7.05      | 2.50  | .....    | 10          | 9             | 12     | 10                     |
| 1893..... | 21.6        | 54      | -21    | 3.04          | 4.56      | 1.87  | .....    | 10          | 10            | 11     | 9                      |
| 1894..... | 34.2        | 61      | -4     | 2.34          | 3.80      | 1.15  | .....    | 10          | 8             | 13     | 11                     |
| 1895..... | 28.1        | 64      | -4     | 4.66          | 5.80      | 2.48  | 9.7      | 10          | 10            | 11     | 11                     |
| 1896..... | 28.6        | 61      | -7     | 1.66          | 2.81      | 0.68  | .....    | 12          | 10            | 9      | 5                      |
| 1897..... | 29.0        | 64      | -6     | 2.80          | 4.21      | 1.70  | 11.5     | 11          | 8             | 12     | 9                      |
| 1898..... | 32.6        | 64      | -10    | 4.20          | 5.90      | 2.79  | 9.7      | 9           | 11            | 11     | 11                     |
| 1899..... | 30.1        | 60      | -21    | 4.01          | 5.73      | 2.40  | 6.0      | 13          | 8             | 10     | 11                     |
| 1900..... | 32.4        | 64      | -5     | 3.85          | 5.50      | 2.37  | 2.6      | 11          | 11            | 9      | 10                     |
| 1901..... | 30.4        | 63      | -6     | 2.52          | 4.00      | 1.35  | 5.4      | 11          | 11            | 9      | 9                      |
| 1902..... | 28.4        | 58      | -5     | 3.28          | 4.35      | 2.52  | 8.6      | 12          | 9             | 10     | 10                     |
| 1903..... | 30.4        | 57      | -5     | 3.90          | 5.04      | 2.31  | 6.4      | 10          | 10            | 11     | 10                     |
| 1904..... | 23.3        | 58      | -34    | 3.09          | 4.67      | 1.34  | 15.6     | 13          | 7             | 11     | 10                     |
| 1905..... | 27.0        | 60      | -16    | 4.18          | 7.13      | 2.68  | 21.3     | 12          | 9             | 10     | 9                      |
| 1906..... | 36.5        | 74      | -5     | 2.85          | 3.86      | 2.08  | 3.1      | 11          | 9             | 11     | 11                     |
| 1907..... | 31.8        | 71      | -19    | 3.50          | 5.80      | 1.93  | 10.3     | 8           | 9             | 14     | 14                     |
| 1908..... | 31.8        | 60      | -6     | 3.74          | 5.22      | 2.25  | 9.9      | 12          | 11            | 8      | 9                      |
| 1909..... | 33.2        | 69      | -12    | 3.18          | 4.13      | 2.18  | 7.5      | 8           | 9             | 14     | 12                     |
| 1910..... | 29.7        | 54      | -15    | 5.04          | 6.65      | 3.66  | 13.3     | 8           | 8             | 15     | 15                     |
| 1911..... | 33.5        | 63      | 0      | 3.44          | 5.34      | 1.97  | 3.6      | 8           | 12            | 11     | 13                     |
| 1912..... | 22.3        | 58      | -32    | 2.82          | 4.62      | 1.73  | 13.4     | 11          | 7             | 13     | 14                     |
| 1913..... | 35.9        | 68      | 10     | 3.58          | 4.71      | 2.63  | 0.8      | 9           | 8             | 14     | 9                      |
| 1914..... | 31.9        | 73      | -12    | 3.85          | 6.15      | 1.95  | 2.4      | 11          | 6             | 14     | 12                     |
| 1915..... | 33.5        | 61      | 3      | 6.55          | 8.92      | 4.40  | 3.4      | 11          | 8             | 12     | 11                     |
| 1916..... | 35.1        | 74      | -2     | 1.60          | 2.96      | 0.92  | 1.9      | 11          | 8             | 13     | 13                     |
| 1917..... | 31.4        | 58      | 0      | 3.26          | 4.52      | 2.35  | 5.4      | 10          | 8             | 11     | 11                     |
| 1918..... | 20.3        | 56      | -16    | 4.14          | 6.14      | 2.78  | 18.9     | 12          | 8             | 10     | 8                      |
| 1919..... | 34.1        | 62      | -7     | 3.51          | 4.44      | 2.24  | 1.3      | 11          | 7             | 13     | 11                     |
| 1920..... | 23.6        | 53      | -10    | 2.60          | 3.53      | 1.61  | 6.6      | 11          | 8             | 10     | 9                      |
| 1921..... | 33.0        | 63      | -5     | 2.63          | 3.49      | 1.78  | 2.7      | 15          | 6             | 10     | 8                      |
| 1922..... | 27.6        | 57      | -11    | 2.62          | 4.13      | 1.08  | 11.1     | 9           | 7             | 15     | 12                     |
| 1923..... | 30.1        | 66      | -14    | 5.22          | 7.26      | 3.41  | 16.6     | 15          | 8             | 8      | 8                      |
| 1924..... | 32.2        | 65      | -6     | 4.48          | 5.69      | 2.88  | 1.4      | 12          | 6             | 13     | 10                     |
| 1925..... | 27.4        | 59      | -20    | 4.43          | 8.73      | 2.54  | 22.8     | 12          | 8             | 12     | 9                      |
| 1926..... | 30.8        | 63      | -9     | 2.61          | 4.04      | 1.63  | 2.4      | 11          | 8             | 12     | 9                      |



## Climatological Data for January, 1926

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                              |         |       |        |       | Precipitation, in inches |       |                              |                         | No. of days                  |                                 |       |            | Prevailing direc-<br>tion of wind | Observers |                                                                                                                          |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|------------------------------|---------|-------|--------|-------|--------------------------|-------|------------------------------|-------------------------|------------------------------|---------------------------------|-------|------------|-----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from<br>the normal | Highest | Date  | Lowest | Date  | Greatest daily<br>range  | Total | Departure from<br>the normal | Greatest in 24<br>hours | Total snowfall<br>(unmelted) | Precipitation .01<br>in or more | Clear | Pt. cloudy |                                   |           | Cloudy                                                                                                                   |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                              |         |       |        |       |                          |       |                              |                         |                              |                                 |       |            |                                   |           |                                                                                                                          |
| Belvidere.....                              | Warren.....     | 289             | 35                      | 28.8                         | +1.5                         | 54      | 19    | 0      | 29    | 28                       | 2.78  | -0.76                        | 0.77                    | 3.0                          | 10                              | 15    | 8          | 8                                 | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                        |
| Charlotteburg.....                          | Passaic.....    | 719             | 34                      | 27.0 <sup>b</sup>            | +0.1                         | 54      | 18    | -3     | 29    | 42                       | 2.41  | -1.14                        | 1.23                    | 5.5                          | 8                               | 3     | 3          | 25                                | sw.       |                                                                                                                          |
| Culvers Lake†.....                          | Sussex.....     | 848             | 25                      | .....                        | .....                        | .....   | ..... | -5     | 29    | .....                    | 2.15  | -1.03                        | 0.78                    | 5.6                          | 9                               | 13    | 7          | 11                                | e.        |                                                                                                                          |
| Dover.....                                  | Morris.....     | 600             | 42                      | 27.9 <sup>b</sup>            | +1.3                         | 55      | 18    | 0      | 29    | .....                    | 3.16  | -1.23                        | 1.43                    | 3.8                          | 9                               | 15    | 11         | 11                                | .....     |                                                                                                                          |
| Layton.....                                 | Sussex.....     | 480             | 25                      | 26.0 <sup>b</sup>            | +1.3                         | 51      | 19    | -5     | 11†   | 42                       | 1.98  | -0.91                        | 0.58                    | 7.5                          | 9                               | 11    | 6          | 14                                | sw.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                    |
| Newton.....                                 | Sussex.....     | 769             | 42                      | .....                        | .....                        | 54      | 18    | -9     | 29    | .....                    | 1.81  | -1.80                        | 0.83                    | 4.0                          | 9                               | 10    | 7          | 14                                | sw.       |                                                                                                                          |
| Phillipsburg.....                           | Warren.....     | 363             | 43                      | 30.9 <sup>b</sup>            | +2.8                         | 57      | 18†   | 4      | 29    | 27                       | 2.42  | -1.18                        | 0.77                    | 2.2                          | 9                               | 15    | 8          | 8                                 | .....     |                                                                                                                          |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 27.6                         | +1.0                         | 51      | 18    | -2     | 13†   | 36                       | 2.39  | -1.09                        | 0.96                    | 3.5                          | 8                               | 8     | 14         | 9                                 | nw.       |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 28.0                         | +1.3                         | 57      | 18†   | -9     | 29    | 42                       | 2.39  | -1.14                        | 1.43                    | 4.4                          | 9                               | 10    | 8          | 13                                | sw.       |                                                                                                                          |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                              |         |       |        |       |                          |       |                              |                         |                              |                                 |       |            |                                   |           |                                                                                                                          |
| Bergen Point††.....                         | Hudson.....     | 37              | 29                      | 32.2                         | +1.5                         | 56      | 18    | 5      | 29    | 26                       | 2.68  | -1.21                        | 0.87                    | 4.5                          | 9                               | 1     | 21         | 9                                 | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                |
| Boonton.....                                | Morris.....     | 400             | 36                      | 26.4 <sup>a</sup>            | -0.9                         | 55      | 18    | 1      | 29    | 38                       | 1.63  | -2.20                        | 0.65                    | .....                        | 7                               | 16    | 0          | 15                                | sw.       |                                                                                                                          |
| Chatham.....                                | Morris.....     | 185             | 22                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | 2.72  | -0.97                        | 0.81                    | .....                        | 7                               | 15    | 10         | 6                                 | .....     |                                                                                                                          |
| Elizabeth.....                              | Union.....      | 45              | 47                      | 31.4                         | +1.2                         | 55      | 19    | 4      | 29    | 26                       | 2.13  | -1.91                        | 0.72                    | 2.0                          | 8                               | 12    | 8          | 11                                | sw.       |                                                                                                                          |
| Flemington.....                             | Hunterdon.....  | 140             | 34                      | 30.4                         | +0.6                         | 54      | 18†   | 4      | 29    | 29                       | 2.41  | -1.28                        | 0.79                    | 2.0                          | 10                              | 15    | 6          | 10                                | w.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                         |
| Highwood††.....                             | Bergen.....     | 90              | 38                      | 29.6                         | +0.8                         | 53      | 18    | 4      | 29    | 30                       | 4.04  | +0.09                        | 1.98                    | 2.8                          | 7                               | 8     | 8          | 15                                | sw.       |                                                                                                                          |
| Jersey City.....                            | Hudson.....     | 10              | 28                      | 32.0                         | -0.2                         | 54      | 18    | 5      | 29    | 28                       | 2.70  | -0.80                        | 0.76                    | 3.3                          | 9                               | 7     | 8          | 16                                | nw.       |                                                                                                                          |
| Lambertville.....                           | Hunterdon.....  | 370             | 39                      | 29.4                         | -1.1                         | 56      | 18    | 2      | 29    | 26                       | 2.65  | -1.00                        | 0.88                    | 3.2                          | 9                               | 8     | 8          | 15                                | sw.       |                                                                                                                          |
| Little Falls.....                           | Passaic.....    | 180             | 23                      | 28.8                         | +0.8                         | 52      | 18    | 3      | 29    | 34                       | 1.94  | -1.76                        | 0.69                    | 2.2                          | 7                               | 9     | 7          | 15                                | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.                       |
| New Brunswick.....                          | Middlesex.....  | 110             | 73                      | 30.8                         | +0.6                         | 57      | 18†   | 4      | 29    | 27                       | 2.09  | -1.70                        | 0.65                    | 1.8                          | 8                               | 13    | 9          | 9                                 | sw.       |                                                                                                                          |
| New Milford††.....                          | Bergen.....     | 9               | 8                       | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | 2.48  | .....                        | 0.83                    | .....                        | 8                               | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Paterson.....                               | Passaic.....    | 80              | 55                      | 31.7                         | +2.1                         | 54      | 19    | 4      | 29    | 25                       | 2.40  | -1.45                        | 0.66                    | 3.5                          | 10                              | 7     | 4          | 20                                | nw.       |                                                                                                                          |
| Plainfield.....                             | Union.....      | 120             | 38                      | 30.1                         | +0.1                         | 56      | 18    | 1      | 29    | 28                       | 2.36  | -1.66                        | 0.72                    | 2.9                          | 8                               | 7     | 12         | 12                                | nw.       | E. D. Pearson.<br>George P. Kirsten.<br>H. B. TenEyck.<br>William H. Meeder.<br>Luther Davis.<br>Hackensack Water Co.    |
| Ridgefield††.....                           | Bergen.....     | 80              | 9                       | 30.4                         | .....                        | 54      | 18    | 3      | 29    | 30                       | 2.64  | .....                        | 0.82                    | 5.4                          | 7                               | 8     | 10         | 13                                | sw.       |                                                                                                                          |
| Somerville.....                             | Somerset.....   | 70              | 43                      | 30.3                         | +1.5                         | 57      | 18    | 4      | 29    | 30                       | 2.27  | -1.45                        | 0.84                    | 2.5                          | 8                               | 12    | 6          | 13                                | w.        |                                                                                                                          |
| South Orange.....                           | Essex.....      | 200             | 56                      | 30.4                         | +1.5                         | 55      | 18    | 3      | 29    | 27                       | 3.10  | -0.93                        | 0.98                    | 4.8                          | 9                               | 9     | 6          | 16                                | ne.       |                                                                                                                          |
| Verona.....                                 | Essex.....      | 490             | .....                   | 29.3                         | .....                        | 54      | 18    | 1      | 29    | 28                       | 2.83  | .....                        | 0.81                    | 2.5                          | 8                               | 11    | 3          | 17                                | w.        | U. S. Weather Bureau.                                                                                                    |
| Woodcliff Lake†.....                        | Bergen.....     | 100             | 8                       | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | 2.67  | .....                        | 0.80                    | .....                        | 7                               | ..... | .....      | .....                             | .....     |                                                                                                                          |
| New York, N. Y.....                         |                 | 365             | 56                      | 31.8                         | +0.9                         | 54      | 18    | 4      | 29    | 28                       | 2.52  | -1.27                        | 0.72                    | 2.9                          | 10                              | 7     | 8          | 16                                | nw.       |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 30.2                         | +0.4                         | 57      | 18†   | 1      | 29    | 38                       | 2.54  | -1.30                        | 1.98                    | 3.1                          | 8                               | 10    | 8          | 13                                | sw.       |                                                                                                                          |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                              |         |       |        |       |                          |       |                              |                         |                              |                                 |       |            |                                   |           |                                                                                                                          |
| Belleplain.....                             | Cape May.....   | 30              | 32                      | 31.8†                        | -1.2                         | 60      | 20    | 2      | 13    | 35                       | 2.91  | -0.62                        | 1.11                    | 0.1                          | 11                              | ..... | .....      | .....                             | .....     | Thomas J. Durell.<br>Harold K. Trvon.<br>Public Service Power Co.                                                        |
| Bridgeton.....                              | Cumberland..... | 90              | 45                      | 32.9                         | -0.8                         | 61      | 20    | 6      | 29    | 32                       | 2.66  | -0.86                        | 0.92                    | 0.4                          | 10                              | 10    | 11         | 10                                | sw.       |                                                                                                                          |
| Burlington.....                             | Burlington..... | 12              | 30                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | ..... | .....                        | .....                   | .....                        | .....                           | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Clayton.....                                | Gloucester..... | 130             | 30                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | ..... | .....                        | .....                   | .....                        | .....                           | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Freehold††.....                             | Monmouth.....   | 180             | 25                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | ..... | .....                        | .....                   | .....                        | .....                           | ..... | .....      | .....                             | .....     | County Agr'l Agent.                                                                                                      |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | ..... | .....                        | .....                   | .....                        | .....                           | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | ..... | .....                        | .....                   | .....                        | .....                           | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 30.4 <sup>b</sup>            | -0.7                         | 57      | 18†   | 4      | 23    | 28                       | 2.52  | -1.02                        | 1.20                    | .....                        | 11                              | 13    | 10         | 8                                 | nw.       |                                                                                                                          |
| Indian Mills††.....                         | Burlington..... | 76              | 37                      | 32.5                         | +0.6                         | 62      | 20    | 5      | 13†   | 37                       | 3.53  | -0.29                        | 1.15                    | 2.8                          | 9                               | 9     | 9          | 13                                | sw.       | James M. Armstrong.<br>R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.               |
| Lakewood.....                               | Ocean.....      | 54              | 22                      | 31.4                         | +0.1                         | 57      | 20    | 3      | 29    | 33                       | 3.18  | -0.50                        | 1.18                    | 1.0                          | 8                               | 11    | 8          | 12                                | sw.       |                                                                                                                          |
| Moorestown.....                             | Burlington..... | 75              | 63                      | 31.6                         | +0.9                         | 58      | 18†   | 4      | 29    | 30                       | 2.56  | -0.90                        | 1.27                    | 2.7                          | 8                               | 10    | 10         | 11                                | nw.       |                                                                                                                          |
| Northfield†.....                            | Atlantic.....   | 25              | 19                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | 2.61  | -0.92                        | 0.77                    | 0.3                          | 8                               | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Pleasantville†.....                         | Atlantic.....   | 26              | 28                      | 32.4 <sup>a</sup>            | .....                        | 63      | 20    | 6      | 29    | 37                       | 2.48  | -0.68                        | 0.68                    | .....                        | 10                              | 16    | 7          | 8                                 | sw.       | N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes<br>U. S. Weather Bureau.      |
| Runyon†.....                                | Middlesex.....  | 18              | 2                       | 29.8 <sup>a</sup>            | .....                        | 57      | 18    | 2      | 13    | 39                       | 2.78  | .....                        | 0.95                    | .....                        | 8                               | 18    | 8          | 5                                 | w.        |                                                                                                                          |
| Trenton.....                                | Mercer.....     | 190             | 54                      | 32.2                         | +1.7                         | 58      | 18    | 4      | 29    | 33                       | 2.25  | -0.92                        | 0.98                    | 3.8                          | 10                              | 8     | 8          | 15                                | sw.       |                                                                                                                          |
| Tuckerton.....                              | Ocean.....      | 23              | 33                      | 33.1 <sup>b</sup>            | +0.5                         | 61      | 20    | 4      | 29    | .....                    | 3.26  | -0.37                        | 0.75                    | 0.2                          | 11                              | 15    | 7          | 9                                 | w.        |                                                                                                                          |
| Vineland.....                               | Cumberland..... | 109             | 57                      | 34.0                         | +1.8                         | 63      | 20    | 6      | 29    | 34                       | 3.00  | -1.02                        | 1.15                    | T.                           | 6                               | 13    | 8          | 10                                | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 34.3                         | +1.9                         | 60      | 18    | 7      | 29    | 29                       | 2.85  | -0.56                        | 1.43                    | 2.2                          | 10                              | 9     | 11         | 11                                | sw.       |                                                                                                                          |
| Means and extremes...                       |                 |                 |                         | 32.0                         | +0.3                         | 63      | 20    | 1      | 29    | 39                       | 2.81  | -0.74                        | 1.27                    | 1.4                          | 9                               | 12    | 9          | 10                                | sw.       |                                                                                                                          |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                              |         |       |        |       |                          |       |                              |                         |                              |                                 |       |            |                                   |           |                                                                                                                          |
| Ashbury Park.....                           | Monmouth.....   | 22              | 37                      | 33.1 <sup>b</sup>            | +0.9                         | 58      | 20    | 5      | 29    | .....                    | 3.20  | -0.37                        | 0.93                    | 1.2                          | 8                               | 15    | 9          | 7                                 | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>William D. Martin, Jr.<br>U. S. Weather Bureau. |
| Atlantic City.....                          | Atlantic.....   | 16              | 53                      | 34.2                         | +1.7                         | 57      | 19    | 7      | 29    | 31                       | 3.11  | -0.29                        | 0.86                    | 0.3                          | 12                              | 8     | 11         | 12                                | w.        |                                                                                                                          |
| Cape May City.....                          | Cape May.....   | 17              | 42                      | 34.6                         | +0.5                         | 59      | 20    | 10     | 29    | 29                       | 2.25  | -1.12                        | 0.65                    | 0.5                          | 11                              | 10    | 11         | 10                                | w.        |                                                                                                                          |
| Long Branch.....                            | Monmouth.....   | 25              | 19                      | .....                        | .....                        | .....   | ..... | .....  | ..... | .....                    | ..... | .....                        | .....                   | .....                        | .....                           | ..... | .....      | .....                             | .....     |                                                                                                                          |
| Sandy Hook.....                             | Monmouth.....   | 22              | 28                      | 31.5                         | +0.7                         | 51      | 18    | 6      | 29    | 30                       | 2.45  | -1.40                        | 0.80                    | 2.0                          | 11                              | 6     | 11         | 14                                | w.        | U. S. Weather Bureau.                                                                                                    |
| Means and extremes...                       |                 |                 |                         | 33.4                         | +1.0                         | 59      | 20    | 5      | 29    | 31                       | 2.75  | -0.80                        | 0.93                    | 1.0                          | 10                              | 10    | 10         | 11                                | w.        |                                                                                                                          |
| For the State.....                          |                 |                 |                         | 30.8                         | +0.6                         | 63      | 20    | -9     | 29    | 42                       | 2.61  | -1.04                        | 1.98                    | 2.4                          | 9                               | 11    | 8          | 12                                | sw.       |                                                                                                                          |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere



## Daily Precipitation for January, 1926

| Stations                                   | Drainage Basin  | Day of month |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      | Total |      |
|--------------------------------------------|-----------------|--------------|---|---|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|-----|------|------|-----|-----|------|-----|----|-----|-----|-----|-----|----|-----|------|-------|------|
|                                            |                 | 1            | 2 | 3 | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 18   | 19   | 20  | 21  | 22   | 23  | 24 | 25  | 26  | 27  | 28  | 29 | 30  | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Belvidere.....                             | Delaware.....   |              |   |   | .07 | .13 | .02 |     |     | .34 |     |    |    |    |    |    |    |     | .77  | .32  |     | .32 | .50  |     |    |     |     | .06 |     |    |     | .25  | 2.78  |      |
| Charlotteburg.....                         | Passaic.....    |              |   |   | *   | .20 |     |     |     | .20 |     |    |    |    |    |    |    |     | 1.23 |      |     | *   | .74  |     |    |     |     |     |     |    |     |      | .12   | 2.41 |
| Culvers Lake.....                          | Delaware.....   |              |   |   | .14 | .04 | T.  |     |     | .25 |     |    |    |    |    |    |    |     | .78  | .29  |     | .15 | .35  |     | T. |     |     | .03 | T.  |    |     |      | .215  |      |
| Dover.....                                 | Passaic.....    |              |   |   | *   | *   | .28 |     |     | .28 |     |    |    |    |    |    |    |     | 1.43 |      |     | .70 | .10  |     | T. |     |     |     |     |    |     | .37  | 3.16  |      |
| Layton.....                                | Delaware.....   |              |   |   | .03 | .06 |     |     |     | .52 |     |    |    |    |    |    |    |     | .58  | .12  |     | .09 | .32  |     |    |     |     | .02 |     |    |     | .24  | 1.98  |      |
| Newton.....                                | Delaware.....   |              |   |   | .06 | *   | .17 |     |     | .28 |     |    |    |    |    |    |    |     | .79  | .04  |     | .25 | T.   |     | T. |     |     | .06 |     |    |     | .16  | 1.81  |      |
| Phillipsburg.....                          | do.....         |              |   |   | .06 | .24 | .02 |     | T.  | .29 |     |    |    |    |    |    |    | T.  | .77  | .04  |     | .57 | .14  |     |    |     | T.  | T.  |     |    |     | .29  | 2.42  |      |
| Sussex.....                                | Hudson.....     |              |   |   | .19 | .06 | .02 |     |     | .35 |     |    |    |    |    |    |    |     | .96  |      |     | .18 | .36  |     |    |     |     | T.  |     |    |     | .27  | 2.39  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Bergen Point**.....                        | Coast.....      |              |   |   | .04 | .14 | T.  |     |     | .35 |     |    |    |    |    |    |    | .03 | .60  | .01  |     | .40 | .24  |     | T. | T.  |     | T.  | T.  |    |     | .87  | 2.68  |      |
| Boonton   .....                            | Passaic.....    |              |   |   | .03 | .10 | T.  |     |     | .10 | T.  |    |    |    |    |    |    |     | .14  | .65  |     |     | .61  |     |    |     | T.  | T.  | T.  |    |     | .81  | 1.63  |      |
| Chatham  .....                             | do.....         |              |   |   | T.  | .22 |     |     |     | .04 | .08 |    |    |    |    |    |    |     | .24  | .64  |     |     | .69  |     |    |     | T.  | T.  | T.  |    |     | .272 | 2.72  |      |
| Elizabeth.....                             | Coast.....      |              |   |   | .05 | .14 | T.  |     |     | *   | .49 |    |    |    |    |    |    |     | *    | .49  |     | *   | .72  |     |    | T.  |     | T.  | T.  |    |     | .45  | 2.13  |      |
| Flemington.....                            | Raritan.....    |              |   |   | .03 | .19 | .02 |     |     | .19 |     |    |    |    |    |    |    |     | .61  | .34  |     | .21 | .58  |     |    |     |     | .03 |     |    |     | .21  | 2.41  |      |
| Highwood.....                              | Hackensack..... |              |   |   | .06 | .11 |     |     |     | .32 |     |    |    |    |    |    |    |     | 1.95 | .03  |     | .34 | .50  |     |    |     | T.  |     |     |    |     | .73  | 4.04  |      |
| Jersey City.....                           | Coast.....      |              |   |   | .01 | .14 |     |     | T.  | .42 |     |    |    |    |    |    |    |     | .76  | .01  |     | .20 | .45  |     |    |     |     | .01 | T.  |    |     | .70  | 2.70  |      |
| Lambertville.....                          | Delaware.....   |              |   |   | .05 | .27 |     |     |     | .32 |     |    |    |    |    |    |    |     | .79  | .09  |     | .19 | .69  |     |    |     |     | .02 | T.  |    |     | .23  | 2.65  |      |
| Little Falls.     .....                    | Passaic.....    |              |   |   | T.  | .16 | T.  |     |     | .26 | .04 |    |    |    |    |    |    |     | .14  | .64  |     |     | .69  |     |    |     |     | T.  | T.  |    |     | .01  | 1.94  |      |
| New Brunswick.....                         | Raritan.....    |              |   |   | .01 | .19 |     |     |     | .17 |     |    |    |    |    |    |    |     | .38  | .20  |     | .16 | .49  |     |    |     |     | T.  | T.  |    |     | .49  | 2.09  |      |
| New Milford.**.....                        | Hackensack..... |              |   |   | .08 | .07 |     |     |     | .10 |     |    |    |    |    |    |    |     | .83  |      |     | .50 | .11  | .03 |    |     |     |     |     |    |     | .76  | 2.48  |      |
| Paterson.....                              | Passaic.....    |              |   |   | .07 | .10 | T.  |     |     | .35 |     |    |    |    |    |    |    |     | .53  | .13  |     | .24 | .34  |     | T. |     |     | .02 | .02 |    |     | .60  | 2.40  |      |
| Plainfield.....                            | Raritan.....    |              |   |   | .01 | .15 |     |     |     | .31 |     |    |    |    |    |    |    |     | .51  | .03  |     | *   | .72  |     | T. |     |     | T.  | T.  | T. |     | .55  | 2.36  |      |
| Ridgefield.....                            | Hackensack..... |              |   |   | *   | .19 |     |     |     | .46 |     |    |    |    |    |    |    | T.  | .82  |      |     | *   | .60  |     |    |     | T.  | T.  | T.  |    |     | .57  | 2.64  |      |
| Somerville.....                            | Raritan.....    |              |   |   | .02 | .21 | T.  |     |     | .25 |     |    |    |    |    |    |    |     | .37  | .16  |     | .22 | .62  |     |    |     |     | T.  | T.  | T. |     | .42  | 2.27  |      |
| South Orange.....                          | Rahway.....     |              |   |   | .13 | .18 | .03 |     | T.  | .33 |     |    |    |    |    |    |    | .05 | .68  | T.   |     | .46 | .26  |     |    |     | T.  | T.  | T.  |    |     | .98  | 3.10  |      |
| Verona.....                                | Passaic.....    |              |   |   | .06 | .15 | .01 |     |     | .33 |     |    |    |    |    |    |    |     | .81  |      |     | .35 | .41  |     | T. |     | T.  |     | T.  |    |     | .73  | 2.83  |      |
| Woodcliff Lake***.....                     | Hackensack..... |              |   |   | .10 | .05 |     |     |     | .63 |     |    |    |    |    |    |    |     | .80  |      |     | .47 | .10  |     |    |     |     |     |     |    |     | .52  | 2.67  |      |
| New York, N. Y***.....                     | Coast.....      |              |   |   | .02 | .12 |     | T.  |     | .40 |     |    |    |    |    |    |    | .01 | .71  | .01  |     | .39 | .21  |     |    |     |     | .01 | T.  |    |     | .66  | 2.52  |      |
| <i>The Southern Interior.</i>              |                 |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |   |   | *   | .25 | .03 |     | .50 | .03 |     |    |    |    |    |    |    |     | *    | 1.11 |     | .12 | .25  |     |    |     | .02 |     |     |    | .60 | 2.91 |       |      |
| Bridgeton.....                             | Coast.....      |              |   |   | .16 | .03 | .01 |     | T.  | .26 |     |    |    |    |    |    |    |     | .01  | .91  | .24 |     | .15  | .57 |    |     |     | T.  | T.  |    |     | .32  | 2.66  |      |
| Burlington.....                            | Delaware.....   |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Clayton.....                               | Delaware.....   |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Freehold   .....                           | Coast.....      |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Hammonton.....                             | Mullica.....    |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Hightstown.....                            | Raritan.....    |              |   |   | \$  | \$  | \$  |     |     | \$  |     |    |    |    |    |    |    |     | \$   | \$   |     | .20 | .80  |     |    |     |     | *   | .10 |    | .60 | \$   |       |      |
| Imlaystown.....                            | Delaware.....   |              |   |   | .05 | .20 | .03 |     |     | .15 | .03 |    |    |    |    |    |    |     | .33  | .30  |     | .22 | .30  |     |    |     |     | .02 |     |    | .21 | 2.52 |       |      |
| Indian Mills.....                          | Mullica.....    |              |   |   | .17 | .15 | .03 |     |     | .34 |     |    |    |    |    |    |    |     | .43  | .42  |     | .20 | .95  |     |    |     |     | T.  |     |    | .84 | 3.53 |       |      |
| Lakewood.....                              | Metedeconk..... |              |   |   | .09 | .15 |     |     |     | .52 |     |    |    |    |    |    |    |     | .52  | .12  |     | .18 | 1.00 |     |    |     | T.  | T.  |     |    | .60 | 3.18 |       |      |
| Moorestown.....                            | Delaware.....   |              |   |   | .04 | .13 |     |     |     | .30 |     |    |    |    |    |    |    |     | .40  | .05  |     | .22 | 1.05 |     |    |     |     | T.  |     |    | .37 | 2.61 |       |      |
| Northfield.....                            | Coast.....      |              |   |   | .25 | .02 | T.  |     |     | .55 |     |    |    |    |    |    |    |     | .77  | .05  |     | .07 | .32  |     |    | T.  | .03 |     |     |    | .55 | 2.61 |       |      |
| Pleasantville   .....                      | Coast.....      |              |   |   | .11 | .07 | .03 |     |     | .68 | T.  |    |    |    |    |    |    |     | .38  | .63  |     |     | .36  |     |    |     |     | .02 | T.  |    |     | .20  | 2.48  |      |
| Runyon.....                                | Coast.....      |              |   |   | *   | .17 |     |     |     | .18 |     |    |    |    |    |    |    |     | .31  | .36  |     | .25 | .56  |     |    |     |     | T.  |     |    | .95 | 2.75 |       |      |
| Trenton***.....                            | Delaware.....   |              |   |   | .01 | .16 |     | T.  |     | .26 |     |    |    |    |    |    |    | .08 | .31  | .06  |     | .71 | .27  |     | T. | T.  |     | .02 | T.  |    | .37 | 2.25 |       |      |
| Tuckerton.....                             | Coast.....      |              |   |   | .15 | .10 | .02 |     |     | .75 |     |    |    |    |    |    |    |     | .58  | .40  |     | .10 | .50  |     |    |     |     | .15 | .01 |    | .50 | 3.20 |       |      |
| Vineland.....                              | Maurice.....    |              |   |   | .20 |     |     |     |     | .35 |     |    |    |    |    |    |    |     | .98  | .18  |     | .14 |      |     |    |     |     |     | T.  |    |     | 1.15 | 3.00  |      |
| Phila., Pa***.....                         | Delaware.....   |              |   |   | .05 | .16 |     | .03 |     | .40 |     |    |    |    |    |    |    | .12 | .33  | .04  |     | .88 | .55  |     |    |     |     |     | T.  | T. |     | .29  | 2.85  |      |
| <i>The Sea Coast.</i>                      |                 |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Asbury Park.....                           | Coast.....      |              |   |   | .04 | .20 | T.  |     |     | .11 |     |    |    |    |    |    |    |     | T.   | .92  | .20 |     | *    | .93 |    |     |     | T.  | T.  |    | .80 | 3.20 |       |      |
| Atlantic City***.....                      | do.....         |              |   |   | .20 | .03 | T.  |     | T.  | .76 |     |    |    |    |    |    |    | .03 | .69  | .09  |     | .14 | .23  |     |    | .02 | .01 | T.  | T.  |    | .85 | 3.11 |       |      |
| Cape May City.....                         | do.....         |              |   |   | .22 | .05 | .01 |     |     | .38 |     |    |    |    |    |    |    |     | .03  | .65  | T.  |     | .14  | .22 |    |     | .01 | .01 | T.  | T. |     | .53  | 2.20  |      |
| Long Branch**.....                         | do.....         |              |   |   |     |     |     |     |     |     |     |    |    |    |    |    |    |     |      |      |     |     |      |     |    |     |     |     |     |    |     |      |       |      |
| Sandy Hook***.....                         | do.....         |              |   |   | .01 | .17 | .01 |     | T.  | .32 |     |    |    |    |    |    |    |     | T.   | .34  | .09 |     | .52  | .28 |    |     |     | .01 | .01 |    |     | .69  | 2.40  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

### MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                         | Sun-<br>shine                      |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                         |                                    |
| Atlantic City.....    | 30.04        | 30.52   | 13   | 29.88  | 22   | 19.3            | 72             | e.        | 9    | 80                                     | 71                                      | 54                                 |
| Cape May City.....    | 30.09        | 30.56   | 29   | 29.46  | 18   | 9.4             | 40             | e.        | 9    | 83                                     | 75                                      | ....                               |
| Long Branch.....      | 30.02        | 30.54   | 8    | 29.41  | 28   | 19.8            | 84             | nw.       | 28   | 70                                     | 62                                      | 57                                 |
| New York, N. Y.....   | 30.05        | 30.53   | 8    | 29.36  | 18   | 10.2            | 39             | ne.       | 9    | 72                                     | 64                                      | 45                                 |
| Philadelphia, Pa..... | 30.02        | 30.53   | 8    | 29.40  | 28   | ..              | ..             | ..        | ..   | ..                                     | ..                                      | ..                                 |
| Ridgefield.....       | 30.02        | 30.55   | 8    | 29.31  | 18   | 17.7            | 60             | nw.       | 28   | 74                                     | 68                                      | 49                                 |
| Sandy Hook.....       | 30.02        | 30.55   | 8    | 29.31  | 18   | 17.7            | 60             | nw.       | 28   | 74                                     | 68                                      | 49                                 |
| Trenton.....          | 30.03        | 30.53   | 8    | 29.35  | 18   | 12.2            | 48             | nw.       | 28   | 71                                     | 61                                      | 51                                 |



| Stations                                    | 1            | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | Mean              |                   |    |
|---------------------------------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|-------------------|----|
| <i>The Highlands and Kittatinny Valley.</i> |              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |                   |    |
| Belvidere.....                              | Maximum..... | 39   | 40   | 42   | 40   | 44   | 46   | 38   | 29   | 30   | 34   | 35   | 35   | 27   | 30   | 41   | 39   | 39   | 53   | 54   | 53   | 43   | 40   | 29   | 32   | 27   | 34   | 36   | 30   | 21   | 41   | 39                | 38.8              |    |
|                                             | Minimum..... | 15   | 32   | 29   | 29   | 34   | 34   | 25   | 17   | 19   | 16   | 8    | 22   | 4    | 5    | 13   | 19   | 18   | 33   | 33   | 33   | 33   | 15   | 13   | 18   | 15   | 17   | 25   | 10   | 0    | 16   | 28                | 20.3              |    |
| Charlotteburg.....                          | Maximum..... | 37   | 39   | 40   | 42   | 48   | 48   | 39   | 32   | 27   | 33   | 36   | 34   | 25   | 27   | 40   | 42   | 54   | 49   | 48   | 47   | 44   | 26   | 26   | 29   | 32   | 36   | 33   | 21   | 42   | .... | 37.2              |                   |    |
|                                             | Minimum..... | 20   | 34   | 25   | 30   | 37   | 32   | 30   | 14   | 18   | 16   | 4    | 22   | 3    | 4    | 5    | 19   | 0    | 32   | 39   | 20   | .... | 11   | 9    | 10   | 13   | 6    | 18   | 7    | -3   | 14   | ....              | 16.9 <sup>b</sup> |    |
| Dover.....                                  | Maximum..... | 38   | 39   | 43   | 43   | 44   | 46   | 40   | 31   | 26   | 32   | 35   | 31   | 27   | 29   | 41   | 41   | 55   | 48   | 48   | 46   | .... | 29   | 29   | 24   | 33   | 32   | 22   | 20   | 43   | 40   | 36.7 <sup>a</sup> |                   |    |
|                                             | Minimum..... | 28   | 30   | 29   | .... | 35   | 35   | 18   | 10   | 19   | 13   | 10   | 18   | 5    | 10   | .... | 21   | 14   | 34   | 32   | 25   | 36   | 13   | 11   | 18   | 14   | 11   | 22   | 5    | 0    | 15   | 31                | 19.1 <sup>b</sup> |    |
| Layton.....                                 | Maximum..... | 38   | 39   | 38   | 35   | 46   | 48   | 37   | 28   | .... | 35   | 37   | 29   | 22   | 28   | 41   | 38   | 40   | 50   | 51   | 48   | 40   | 39   | 30   | 25   | 31   | 30   | 23   | .... | 40   | 38   | 36.3 <sup>b</sup> |                   |    |
|                                             | Minimum..... | 15   | .... | 20   | 26   | 32   | 33   | 19   | 16   | 15   | 10   | -5   | 20   | -4   | -5   | 5    | 15   | 9    | 32   | 36   | 23   | 30   | 13   | 12   | 18   | 11   | 8    | 18   | 6    | -2   | 16   | 26                | 15.6 <sup>a</sup> |    |
| Newton.....                                 | Maximum..... | 37   | 40   | 43   | 39   | 41   | 43   | .... | 39   | 28   | 34   | 33   | 34   | 24   | 28   | 41   | 38   | 39   | 54   | 51   | 45   | 45   | 40   | 28   | 28   | 22   | 33   | 35   | 30   | 19   | 41   | 35                | 36.2 <sup>a</sup> |    |
|                                             | Minimum..... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              | ....              |    |
| Phillipsburg.....                           | Maximum..... | 41   | 41   | 46   | 40   | 45   | 46   | .... | 30   | .... | 34   | 40   | 38   | 26   | 35   | 44   | 42   | 41   | 57   | 57   | 49   | 44   | 41   | 34   | 34   | 26   | 34   | 38   | 33   | 23   | 44   | 42                | 39.5 <sup>b</sup> |    |
|                                             | Minimum..... | 17   | 33   | 32   | 31   | 34   | 35   | 21   | .... | 21   | 20   | 14   | 17   | 9    | .... | 18   | 22   | 19   | 34   | 32   | 28   | 36   | 17   | 15   | 21   | 19   | 21   | 22   | 8    | 4    | 17   | 30                | 22.3 <sup>b</sup> |    |
| Sussex.....                                 | Maximum..... | 37   | 38   | 41   | 40   | 44   | 48   | 41   | 35   | 30   | 33   | 35   | 32   | 27   | 29   | 41   | 41   | 39   | 51   | 48   | 44   | 43   | 40   | 34   | 28   | 24   | 33   | 37   | 31   | 23   | 43   | 39                | 37.1              |    |
|                                             | Minimum..... | 20   | 34   | 24   | 26   | 34   | 35   | 21   | 15   | 19   | 8    | -1   | 23   | -2   | -2   | 5    | 14   | 11   | 33   | 36   | 24   | 32   | 15   | 12   | 18   | 14   | 11   | 24   | 11   | 1    | 16   | 28                | 18.0              |    |
| <i>The Red Sandstone Plain.</i>             |              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |                   |    |
| Bergen Point.....                           | Maximum..... | 42   | 42   | 44   | 43   | 43   | 50   | 40   | 30   | 30   | 35   | 36   | 32   | 27   | 35   | 42   | 42   | 42   | 56   | 53   | 50   | 48   | 42   | 30   | 34   | 26   | 32   | 40   | 36   | 24   | 39   | 38                | 38.8              |    |
|                                             | Minimum..... | 24   | 36   | 28   | 38   | 40   | 40   | 26   | 22   | 28   | 22   | 32   | 27   | 16   | 20   | 20   | 28   | 24   | 39   | 55   | 39   | 31   | 38   | 18   | 15   | 22   | 19   | 23   | 26   | 10   | 5    | 16                | 34                | 25 |

§§ Instruments are read in the morning; the maximum temperature then read is charged

[illegible]

\* Measurement included in next following

\*\*Observations taken in the morning, and entered on preceding day.



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXI.

FEBRUARY, 1926.

No. 2

### GENERAL SUMMARY.

Stormy weather prevailed in February to a considerable extent, although there were no severe extremes. Gale, snowfall, total precipitation, and cloudiness exceeded normal, and slightly subnormal temperature prevailed. Since average snowfall for the State has been tabulated in 1895, the snowfall this month had been exceeded only in February 1899, and closely equalled in December 1904, January 1905, February 1907 and 1920, and January 1925. The snowiest winter on record was 1898-1899, with 59 inches, and the next was 1904-1905, with 54 inches. The snow of February 1926 occurred mostly on the 3d-4th in northern counties, and on the 9-10th in central and southern districts. Both these storms caused considerable interference with highway traffic and delayed rail traffic somewhat, the greatest trouble being caused by gales drifting the snow back over routes which had been cleared. Two thunderstorms and hail were notably unusual features to occur in winter. The depth of snow averaged in excess of 20 inches over the northern half of the State, and from 5 to 20 inches in the southern half.

Temperatures were subnormal over central and northeastern portions of the State, and slightly above normal elsewhere. The coldest days were about 16° below normal, and the warmest about 12° above normal, otherwise temperature conditions were without remark.

The Delaware River was mostly open after the 20th, although there was considerable ice bound to the shore.

Storm warnings were displayed along the coast on the 1st, 3d, 4th, 9th, 10th, 14th, 19th, and 25th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 29.4°, which was 0.2° below normal. The highest temperature was 57° at Belleplain on the 18th, and the lowest, 11° below zero, at Layton on the 9th. The greatest daily range of temperature was 42° at Runyon on the 17th. The highest monthly mean temperature was 34.8° at Cape May City, and the lowest, 24.4° at Layton.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, +0.9°; Red Sandstone Plain, -0.2°; Southern Interior, +0.4°; Sea Coast, +0.4°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 40 stations, was 4.54 inches, which was 0.84 inch above normal. The average total snowfall at eighteen selected stations was 21.2 inches, which was 14.6 inches above normal. The greatest monthly precipitation was 6.30 inches, at South Orange, and the least, 2.86 inches at Cape May City. The greatest amount of precipitation in any 24 consecutive hours was 2.70 inches at Charlotteburg on the 3d-4th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, +0.19 inch; Red Sandstone Plain, -0.10 inch; Southern Interior, -0.38 inch; Sea Coast, -0.60 inch.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 17 miles per hour, which was 3 miles above normal. The highest velocity, sustained for 5 consecutive minutes, was 78 miles per hour from the northeast at Atlantic City on the 4th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 9, which was 2 less than normal; partly cloudy, 5, or 3 less than normal; cloudy, 14, or 5 more than normal. The per cent of possible sunshine was 48, which was 8 per cent below normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, averaged 29.89 inches, which was 0.21 inch below normal. The highest reading was 30.49 inches at Cape May City on the 17th, and the lowest, 29.17 inches at Atlantic City on the 19th.

The Delaware River remained frozen the greater part of the month at Phillipsburg and Trenton. Sleet fell on the 1st, 3d, 4th, 13th, and 19th. Dense fog occurred on the 1st, 14th, 19th, and 25th. Solar halos were observed on the 6th, 18th, 27th, and lunar halos on the 3d, 21st, and 22d. Thunderstorms occurred on the 14th and 25th.

Light hail fell generally over the northern half of the State in connection with the thunderstorm of the 25th, and also at New Brunswick and South Orange on the 14th.

### COMPARATIVE DATA FOR FEBRUARY

| Year | Temperature |         |        | Precipitation |          |       |          | No. of days |               |        |                        |
|------|-------------|---------|--------|---------------|----------|-------|----------|-------------|---------------|--------|------------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885 | 23.9        | 54      | -2     | 3.93          | 5.85     | 1.44  | .....    | .....       | .....         | .....  | .....                  |
| 1886 | 23.9        | 64      | -10    | 5.42          | 8.00     | 4.13  | .....    | .....       | .....         | .....  | .....                  |
| 1887 | 33.9        | 69      | 6      | 5.24          | 6.74     | 4.13  | .....    | .....       | .....         | .....  | .....                  |
| 1888 | 30.6        | 60      | -5     | 3.53          | 6.01     | 2.04  | .....    | .....       | .....         | .....  | .....                  |
| 1889 | 27.7        | 53      | -3     | 2.49          | 3.80     | 1.65  | .....    | .....       | .....         | .....  | .....                  |
| 1890 | 39.9        | 76      | 14     | 4.17          | 5.32     | 2.43  | .....    | .....       | .....         | .....  | .....                  |
| 1891 | 38.0        | 71      | 1      | 5.11          | 7.20     | 3.70  | .....    | 6           | 9             | 13     | 14                     |
| 1892 | 38.0        | 58      | 7      | 1.63          | 3.62     | 0.67  | .....    | 7           | 9             | 13     | 7                      |
| 1893 | 30.1        | 63      | -1     | 5.73          | 8.90     | 3.14  | .....    | 7           | 8             | 13     | 11                     |
| 1894 | 29.7        | 62      | -11    | 4.42          | 6.17     | 3.25  | .....    | 9           | 8             | 11     | 11                     |
| 1895 | 23.6        | 57      | -12    | 1.28          | 2.34     | 0.55  | 11.6     | 13          | 9             | 6      | 5                      |
| 1896 | 32.1        | 62      | -12    | 6.77          | 10.06    | 4.82  | 6.7      | 9           | 9             | 11     | 12                     |
| 1897 | 32.5        | 59      | -6     | 3.61          | 6.37     | 2.38  | 8.0      | 8           | 10            | 10     | 8                      |
| 1898 | 32.7        | 65      | -15    | 3.48          | 5.45     | 1.55  | 2.0      | 12          | 7             | 9      | 9                      |
| 1899 | 25.8        | 60      | -17    | 6.06          | 8.77     | 3.78  | 31.3     | 10          | 6             | 12     | 15                     |
| 1900 | 31.0        | 69      | -6     | 5.30          | 7.88     | 3.27  | 9.6      | 9           | 9             | 10     | 10                     |
| 1901 | 25.4        | 52      | -6     | 0.94          | 1.65     | 0.69  | 4.9      | 15          | 9             | 4      | 4                      |
| 1902 | 27.4        | 62      | -7     | 6.24          | 8.44     | 4.29  | 16.5     | 12          | 6             | 10     | 9                      |
| 1903 | 33.7        | 70      | -16    | 4.87          | 6.60     | 3.74  | 6.7      | 12          | 8             | 8      | 10                     |
| 1904 | 24.8        | 65      | -16    | 2.45          | 3.09     | 1.36  | 5.6      | 13          | 8             | 8      | 8                      |
| 1905 | 23.4        | 53      | -18    | 2.53          | 3.96     | 0.70  | 7.3      | 14          | 7             | 7      | 7                      |
| 1906 | 30.9        | 64      | -12    | 2.58          | 3.85     | 1.77  | 5.4      | 14          | 7             | 7      | 7                      |
| 1907 | 23.6        | 55      | -22    | 2.67          | 3.90     | 1.82  | 20.8     | 14          | 7             | 7      | 8                      |
| 1908 | 28.1        | 65      | -17    | 4.79          | 7.44     | 2.85  | 11.9     | 10          | 10            | 9      | 9                      |
| 1909 | 37.8        | 72      | -2     | 4.96          | 6.78     | 3.55  | 2.3      | 6           | 10            | 12     | 12                     |
| 1910 | 30.5        | 69      | -11    | 3.08          | 4.81     | 1.06  | 6.2      | 10          | 9             | 9      | 10                     |
| 1911 | 30.9        | 67      | -12    | 2.78          | 4.06     | 1.76  | 11.2     | 8           | 7             | 13     | 11                     |
| 1912 | 27.7        | 61      | -14    | 2.49          | 3.12     | 1.68  | 2.8      | 11          | 12            | 6      | 5                      |
| 1913 | 30.6        | 70      | -5     | 2.49          | 3.21     | 1.48  | 3.5      | 16          | 6             | 6      | 7                      |
| 1914 | 25.9        | 67      | -12    | 2.85          | 4.94     | 1.89  | 15.1     | 12          | 7             | 9      | 9                      |
| 1915 | 35.7        | 75      | -7     | 5.37          | 7.28     | 2.97  | 3.5      | 11          | 6             | 11     | 8                      |
| 1916 | 28.1        | 63      | -18    | 4.21          | 6.17     | 2.84  | 11.4     | 10          | 6             | 13     | 11                     |
| 1917 | 28.1        | 62      | -19    | 1.95          | 2.80     | 0.92  | 8.3      | 10          | 9             | 9      | 11                     |
| 1918 | 29.0        | 67      | -23    | 2.08          | 3.41     | 1.03  | 2.6      | 12          | 8             | 8      | 7                      |
| 1919 | 33.6        | 65      | -4     | 3.39          | 6.48     | 1.37  | 1.2      | 15          | 4             | 9      | 10                     |
| 1920 | 27.9        | 54      | -17    | 4.20          | 7.20     | 2.39  | 20.0     | 11          | 8             | 10     | 11                     |
| 1921 | 34.0        | 71      | -5     | 3.81          | 5.82     | 2.58  | 13.6     | 10          | 8             | 10     | 10                     |
| 1922 | 33.6        | 73      | -10    | 2.94          | 4.60     | 1.80  | 8.5      | 10          | 8             | 10     | 10                     |
| 1923 | 26.1        | 56      | -12    | 2.58          | 3.74     | 1.51  | 13.8     | 10          | 8             | 10     | 12                     |
| 1924 | 28.9        | 62      | -3     | 4.10          | 6.11     | 2.45  | 11.9     | 13          | 5             | 11     | 9                      |
| 1925 | 37.3        | 72      | -1     | 2.23          | 4.64     | 1.18  | 0.7      | 12          | 6             | 10     | 7                      |
| 1926 | 29.4        | 57      | -11    | 4.54          | 6.30     | 2.86  | 21.2     | 9           | 5             | 14     | 11                     |



## Climatological Data for February, 1926

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                           |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|---------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                    |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                           |
| Belvidere.....                              | Warren.....     | 289             | 35                      | 28.0                         | +0.9                      | 48      | 18†   | 0      | 6     | 34                       | 5.56  | +1.72                     | 1.80                 | 25.7                      | 12                           | 15    | 4          | 9                            | .....     | Miss C. S. Hixson.        |
| Charlotteburg.....                          | Passaic.....    | 719             | 34                      | 26.0                         | +0.4                      | 49      | 18    | -9     | 9     | 36                       | 6.13  | +2.11                     | 2.70                 | 34.5                      | 11                           | 3     | 1          | 24                           | nw.       | Newark Water Dept.        |
| Culvers Lake†.....                          | Sussex.....     | 848             | 25                      | .....                        | .....                     | .....   | ..... | -9     | 9†    | .....                    | 3.44  | +0.38                     | 1.40                 | 21.8                      | 10                           | 11    | 1          | 16                           | w.        | Brice E. Riker.           |
| Dover.....                                  | Morris.....     | 600             | 42                      | 26.6                         | +0.4                      | 48      | 18    | -1     | 9     | 29                       | 4.78  | +0.75                     | 1.40                 | 23.0                      | 10                           | 7     | 6          | 15                           | .....     | William C. Harris.        |
| Layton.....                                 | Sussex.....     | 480             | 25                      | 24.4                         | +0.8                      | 47      | 26    | -11    | 9     | 36                       | 5.25  | +2.51                     | 2.13                 | 26.5                      | 11                           | 11    | 1          | 16                           | nw.       | A. M. Depue.              |
| Newton.....                                 | Sussex.....     | 769             | 42                      | 25.7                         | -0.8                      | 48      | 18    | 0      | 9     | 31                       | 3.66  | +0.10                     | 2.00                 | 28.3                      | 9                            | 10    | 5          | 13                           | nw.       | Irving J. Kern.           |
| Phillipsburg.....                           | Warren.....     | 363             | 43                      | 28.8°                        | +0.9                      | 47      | 18    | 12     | 10    | .....                    | 5.36  | +1.72                     | 1.42                 | 16.6                      | 13                           | 9     | 6          | 13                           | .....     | Town Engineer.            |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 26.0 <sup>a</sup>            | +0.6                      | 47      | 18    | -9     | 9     | 32                       | \$    |                           |                      |                           | 9                            | 9     | 3          | 16                           | nw.       | A. J. W. Mowatt           |
| Means and extremes.....                     |                 |                 |                         | 26.5                         | +0.5                      | 49      | 18    | -11    | 9     | 36                       | 4.88  | +1.33                     | 2.70                 | 25.2                      | 11                           | 9     | 4          | 15                           | nw.       |                           |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                           |
| Bergen Point††.....                         | Hudson.....     | 37              | 29                      | 29.8 <sup>b</sup>            | +0.4                      | 51      | 18    | 10     | 11    | 24                       | 4.71  | +0.73                     | 1.90                 | 26.0                      | 11                           | 1     | 15         | 12                           | ne.       | William H. Mitchell       |
| Boonton.....                                | Morris.....     | 400             | 36                      | 24.9                         | -2.2                      | 47      | 18†   | -2     | 9     | 37                       | 4.40  | +0.43                     | 1.40                 | .....                     | 12                           | 11    | 0          | 17                           | nw.       | John Kline.               |
| Chatham.....                                | Morris.....     | 185             | 22                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 6.06  | +2.63                     | 1.16                 | .....                     | 13                           | 10    | 9          | 9                            | .....     | Paul Molitor, Sr.         |
| Elizabeth.....                              | Union.....      | 45              | 47                      | 29.8                         | -0.7                      | 50      | 18    | 4      | 11    | 29                       | 5.66  | +1.49                     | 1.82                 | 25.0                      | 12                           | 9     | 6          | 13                           | nw.       | L. B. Bonnett.            |
| Flemington.....                             | Hunterdon.....  | 140             | 34                      | 29.7                         | +0.9                      | 49      | 18    | 5      | 6     | 32                       | 3.51  | -0.03                     | 0.70                 | 18.0                      | 12                           | 11    | 5          | 12                           | ne.       | Hiram E. Deats.           |
| Highwood††.....                             | Bergen.....     | 90              | 38                      | 27.5                         | -0.9                      | 46      | 18†   | -1     | 9     | 29                       | 5.89  | +1.63                     | 2.21                 | 32.8                      | 11                           | 6     | 7          | 15                           | w.        | Charles J. Bates.         |
| Jersey City.....                            | Hudson.....     | 10              | 28                      | 29.6                         | -1.0                      | 50      | 18†   | 8      | 11    | 23                       | 5.77  | +2.05                     | 2.39                 | 26.4                      | 12                           | 12    | 5          | 11                           | nw.       | S. K. Pearson, Jr.        |
| Lambertville.....                           | Hunterdon.....  | 370             | 39                      | 28.8                         | -1.6                      | 48      | 25    | 8      | 11    | 26                       | 4.02  | +0.54                     | 0.96                 | 23.5                      | 12                           | 9     | 3          | 16                           | nw.       | Wm. J. Lauderdale.        |
| Little Falls.....                           | Passaic.....    | 180             | 23                      | 26.4                         | -3.2                      | 51      | 18    | 2      | 9     | 34                       | 5.99  | +2.52                     | 1.93                 | 26.5                      | 12                           | 8     | 4          | 16                           | nw.       | Passaic Consol. Water Co  |
| New Brunswick.....                          | Middlesex.....  | 110             | 73                      | 29.1                         | -1.7                      | 51      | 26    | 5      | 11    | 32                       | 3.33  | -0.29                     | 0.98                 | 33.6                      | 12                           | 11    | 2          | 15                           | nw.       | N. J. Experiment Station. |
| New Milford††.....                          | Bergen.....     | 9               | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | \$    |                           |                      |                           | 12                           |       |            |                              | .....     | Hackensack Water Co       |
| Paterson.....                               | Passaic.....    | 80              | 55                      | 29.4                         | -0.8                      | 48      | 18†   | 9      | 11    | 25                       | 5.40  | +1.19                     | 2.00                 | 27.0                      | 12                           | 9     | 2          | 17                           | nw.       | Marion T. Probert.        |
| Plainfield.....                             | Union.....      | 120             | 33                      | 27.6                         | -1.1                      | 50      | 18    | 1      | 6     | 34                       | 5.12  | +1.16                     | 1.89                 | 30.1                      | 13                           | 7     | 7          | 14                           | nw.       | E. D. Pearson.            |
| Ridgefield††.....                           | Bergen.....     | 80              | 9                       | 27.6                         | .....                     | 48      | 18†   | 5      | 9     | 26                       | 5.57  | .....                     | 2.07                 | 31.0                      | 12                           | 8     | 5          | 15                           | nw.       | George P. Kirsten.        |
| Somerville.....                             | Somerset.....   | 70              | 43                      | 29.3                         | +0.4                      | 49      | 18†   | 2      | 6     | 35                       | 4.20  | +0.42                     | 0.78                 | 21.1                      | 10                           | 11    | 4          | 13                           | w.        | H. B. TenEyck.            |
| South Orange.....                           | Essex.....      | 200             | 56                      | 28.2                         | -0.8                      | 48      | 18†   | 8      | 11    | 25                       | 6.30  | +2.37                     | 1.67                 | 37.5                      | 11                           | 5     | 9          | 14                           | nw.       | William H. Meeder.        |
| Verona.....                                 | Essex.....      | 490             | .....                   | 27.0 <sup>a</sup>            | .....                     | 48      | 25    | 6      | 11    | 25                       | 6.00  | .....                     | 2.18                 | 32.6                      | 14                           | 5     | 6          | 17                           | nw.       | Luther Davis.             |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | Hackensack Water Co.      |
| New York, N. Y.....                         |                 | 365             | 56                      | 29.4                         | -1.9                      | 50      | 25    | 8      | 11    | 24                       | 5.46  | +1.72                     | 2.26                 | 21.8                      | 12                           | 8     | 6          | 14                           | nw.       | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                 |                         | 28.3                         | -0.9                      | 51      | 18†   | -2     | 9     | 37                       | 5.12  | +1.20                     | 2.39                 | 27.9                      | 12                           | 8     | 6          | 14                           | nw.       |                           |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                           |
| Belleplain.....                             | Cape May.....   | 30              | 32                      | 33.6                         | +2.1                      | 57      | 18    | 7      | 11    | 36                       | 3.19  | -0.40                     | 0.84                 | 8.2                       | 10                           | 12    | 5          | 11                           | .....     | Thomas J. Durell.         |
| Bridgeton.....                              | Cumberland..... | 90              | 45                      | 33.0                         | -0.7                      | 52      | 25†   | 6      | 11    | 31                       | 4.04  | +0.22                     | 1.38                 | 14.0                      | 11                           | 8     | 6          | 14                           | nw.       | Harold K. Trvon.          |
| Burlington.....                             | Burlington..... | 12              | 34                      | 32.0°                        | +0.7                      | 54      | 25†   | 11     | 11†   | 30                       | 3.00  | -0.50                     | 1.42                 | 17.0                      | 9                            | 11    | 2          | 15                           | nw.       | Public Service Power Co.  |
| Clayton.....                                | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                           |
| Freehold††.....                             | Monmouth.....   | 180             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | County Agr'l Agent.       |
| Hammononton.....                            | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                           |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 29.0                         | -0.4                      | 51      | 26    | 1      | 11    | 32                       | 3.89  | +0.29                     | 1.00                 | 19.0                      | 11                           | 11    | 5          | 12                           | w.        | Harvey M. Grover.         |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 29.2 <sup>a</sup>            | -1.2                      | 53      | 18    | 3      | 6†    | 34                       | \$    |                           |                      |                           | 12                           | 13    | 4          | 11                           | nw.       | Frank M. Lawrence.        |
| Indian Mills††.....                         | Burlington..... | 76              | 37                      | 32.2                         | +0.4                      | 54      | 18    | 9      | 6†    | 35                       | 4.81  | +1.36                     | 1.62                 | 21.5                      | 11                           | 8     | 7          | 13                           | nw.       | James M. Armstrong.       |
| Lakewood.....                               | Ocean.....      | 54              | 22                      | 29.6                         | -0.1                      | 54      | 18    | 4      | 11    | 35                       | 4.97  | +1.40                     | 1.75                 | 20.5                      | 10                           | 10    | 5          | 13                           | nw.       | R. W. Holman.             |
| Moorestown.....                             | Burlington..... | 75              | 63                      | 31.9                         | +0.6                      | 52      | 18†   | 9      | 11    | 28                       | 3.65  | +0.17                     | 0.96                 | 16.7                      | 11                           | 11    | 5          | 12                           | w.        | John B. Warrick.          |
| Northfield††.....                           | Atlantic.....   | 25              | 19                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.00  | +0.21                     | 1.10                 | 6.2                       | 8                            |       |            |                              | .....     | William L. Flick.         |
| Pleasantville††.....                        | Atlantic.....   | 26              | 28                      | 31.8                         | .....                     | 55      | 26    | 7      | 11    | 32                       | 3.46  | +0.65                     | 1.37                 | .....                     | 11                           | 12    | 11         | 5                            | nw.       | N. J. Dept. Conservation. |
| Runyon††.....                               | Middlesex.....  | 18              | 2                       | 29.2                         | .....                     | 52      | 19†   | -2     | 9     | 42                       | 5.46  | .....                     | 2.00                 | 26.0                      | 11                           | 10    | 7          | 11                           | w.        | N. J. Dept. Conservation. |
| Trenton.....                                | Mercer.....     | 190             | 54                      | 30.1                         | -0.6                      | 53      | 25    | 9      | 11    | 28                       | 3.92  | +0.73                     | 1.17                 | 23.2                      | 11                           | 9     | 5          | 14                           | nw.       | U. S. Weather Bureau.     |
| Tuckerton.....                              | Ocean.....      | 23              | 33                      | 32.6 <sup>b</sup>            | +1.8                      | 51      | 7     | 12     | 9†    | 28                       | 3.00  | -0.66                     | 0.65                 | .....                     | 8                            | 10    | 6          | 12                           | w.        | Mrs. Sophie M. Austin     |
| Vineland.....                               | Cumberland..... | 109             | 57                      | 34.2                         | +1.7                      | 55      | 18    | 6      | 11    | 29                       | 4.51  | +0.79                     | 0.98                 | 17.0                      | 9                            | 10    | 7          | 11                           | nw.       | H. C. Himes               |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 33.6                         | -0.3                      | 53      | 25    | 14     | 11    | 24                       | 3.18  | -0.20                     | 0.90                 | 15.4                      | 11                           | 8     | 7          | 13                           | nw.       | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                 |                         | 31.4                         | +0.4                      | 57      | 18    | -2     | 9     | 42                       | 3.92  | +0.36                     | 2.00                 | 17.2                      | 10                           | 10    | 6          | 12                           | nw.       |                           |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                           |
| Asbury Park.....                            | Monmouth.....   | 22              | 37                      | 30.6 <sup>b</sup>            | -0.8                      | 54      | 26    | 1      | 11    | 24                       | 4.50  | +1.00                     | 1.56                 | 22.5                      | 11                           | 14    | 6          | 8                            | nw.       | Information Bureau.       |
| Atlantic City.....                          | Atlantic.....   | 16              | 53                      | 33.8                         | +0.2                      | 52      | 26    | 11     | 11    | 21                       | 3.02  | -0.25                     | 1.29                 | 5.9                       | 10                           | 11    | 3          | 14                           | w.        | U. S. Weather Bureau.     |
| Cape May City.....                          | Cape May.....   | 17              | 42                      | 34.8                         | +0.7                      | 52      | 26    | 17     | 11    | 20                       | 2.86  | -0.43                     | 0.85                 | 5.0                       | 10                           | 8     | 7          | 13                           | nw.       | U. S. Weather Bureau.     |
| Long Branch.....                            | Monmouth.....   | 25              | 19                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     | William D. Martin, Jr.    |
| Sandy Hook.....                             | Monmouth.....   | 22              | 28                      | 29.8                         | -0.8                      | 48      | 18    | 11     | 11    | 19                       | 4.04  | +0.50                     | 1.15                 | 18.8                      | 11                           | 8     | 4          | 16                           | nw.       | U. S. Weather Bureau.     |
| Means and extremes.....                     |                 |                 |                         | 32.2                         | -0.2                      | 54      | 26    | 1      | 11    | 24                       | 3.60  | +0.20                     | 1.56                 | 13.0                      | 10                           | 10    | 5          | 13                           | nw.       |                           |
| For the State.....                          |                 |                 |                         | 29.4                         | -0.2                      | 57      | 18    | -11    | 9     | 42                       | 4.54  | +0.84                     | 2.70                 | 21.2                      | 11                           | 9     | 5          | 14                           | nw.       |                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc. T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere.



## Daily Precipitation for February, 1926

| Stations                                   | Drainage Basin  | Day of month |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    | Total |  |
|--------------------------------------------|-----------------|--------------|-----|-----|--------|-----|-----|-----|----|-----|------|------|----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|------|------|------|-----|----|----|----|----|-------|--|
|                                            |                 | 1            | 2   | 3   | 4      | 5   | 6   | 7   | 8  | 9   | 10   | 11   | 12 | 13  | 14  | 15  | 16  | 17 | 18  | 19  | 20  | 21  | 22  | 23  | 24   | 25   | 26   | 27  | 28 | 29 | 30 | 31 |       |  |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Belvidere.....                             | Delaware.....   | .52          | .01 | .20 | 1.80   | .08 |     |     |    |     | .25  |      |    | .10 | .50 |     |     |    |     | .95 |     |     |     | .15 |      | .70  | .30  |     |    |    |    |    | 5.56  |  |
| Charlotteburg.....                         | Passaic.....    | .24          |     |     | 2.70   |     |     |     |    |     | .60  |      |    | .43 | .62 |     |     |    |     | .67 |     |     |     | .03 |      | 1.27 |      |     |    |    |    |    | 6.13  |  |
| Culvers Lake.....                          | Delaware.....   | .27          | .01 | T.  | 1.40   |     |     | T.  |    | T.  | .09  |      |    | .03 | .30 | .16 |     |    |     | .43 | T.  |     |     |     | .58  | .17  |      |     |    |    |    |    | 3.44  |  |
| Dover.....                                 | Passaic.....    | .33          |     | *   | 1.40   |     |     |     |    | T.  | *    |      |    | .10 | .74 |     |     |    | *   | .56 |     |     |     |     | 1.10 |      |      |     |    |    |    |    | 4.78  |  |
| Layton.....                                | Delaware.....   | .46          | T.  | *   | 2.13   |     |     |     |    | *   | .07  |      |    | .03 | .43 | .11 |     |    |     | .41 | T.  |     |     |     |      | 1.46 | .15  |     |    |    |    |    | 5.25  |  |
| Newton.....                                | Delaware.....   | .27          |     |     | 201.80 |     | T.  |     |    | T.  | .07  |      |    | .12 | .37 | .17 |     |    | T.  | .13 |     |     |     | T.  |      | .53  | T.   |     |    |    |    |    | 3.66  |  |
| Phillipsburg.....                          | do.....         | .23          |     |     | 51.142 |     | T.  |     |    | T.  | .77  |      |    | .10 | *   | .47 | .59 | T. |     | .29 | .11 | .02 |     | .23 |      | .62  |      |     |    |    |    |    | 5.36  |  |
| Sussex.....                                | Hudson.....     | .26          |     |     | \$     |     |     |     |    |     | \$   |      |    | \$  | .40 | .34 |     |    |     | .49 |     |     |     |     |      | .41  | .11  |     |    |    |    |    | \$    |  |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Bergen Point**.....                        | Coast.....      | .24          | T.  | .33 | 1.57   |     | T.  |     |    |     | .08  | .64  |    | .02 | .48 |     | T.  |    | .13 | .35 |     | T.  | T.  | .13 |      | .74  |      | T.  |    |    |    |    | 4.71  |  |
| Boonton   .....                            | Passaic.....    | .56          | .29 |     | 1.30   | .10 |     | T.  |    |     | .15  | .08  |    |     | .07 | .12 |     | T. |     | .40 | .12 | T.  |     | .05 |      | 1.16 |      | T.  |    |    |    |    | 4.40  |  |
| Chatham   .....                            | do.....         | .06          | .22 |     | 1.06   | .51 |     | .04 |    |     | .99  | .47  |    |     | .33 | .41 |     | T. |     | .30 | .29 |     |     | .22 |      |      | 1.16 |     |    |    |    |    | 6.06  |  |
| Elizabeth.....                             | Coast.....      | .61          |     | *   | 1.82   |     |     | .02 |    | *   | .97  |      |    | *   | .52 | T.  |     |    | *   | .50 |     |     |     | .14 |      | 1.08 | T.   |     |    |    |    |    | 5.66  |  |
| Flemington.....                            | Raritan.....    | .26          |     | .10 | .60    |     | T.  |     |    | T.  | .70  |      |    | .06 | .32 | .05 |     |    | T.  | .47 | .03 | T.  |     | .18 |      | .56  | .18  |     |    |    |    |    | 3.51  |  |
| Highwood.....                              | Hackensack..... | .32          |     |     | 2.21   |     | T.  |     |    |     | .07  | .97  |    | T.  | .23 | .23 |     |    | T.  | .72 |     | T.  |     | .10 |      | .94  | .10  |     |    |    |    |    | 5.89  |  |
| Jersey City.....                           | Coast.....      | .15          |     | .20 | 2.19   |     | .01 |     |    |     | .13  | 1.09 |    | .02 | .46 |     | T.  |    | T.  | .48 |     |     |     | .19 |      | .71  | .14  |     | T. |    |    |    | 5.77  |  |
| Lambertville.....                          | Delaware.....   | .31          |     | .28 | .41    |     |     |     |    |     | .11  | .96  |    | .06 | .20 | .07 |     |    | T.  | .43 |     |     |     | .17 |      | .90  | .12  |     |    |    |    |    | 4.02  |  |
| Little Falls.    .....                     | Passaic.....    | .81          | .21 |     | 1.68   | .25 |     | T.  |    |     | .61  | .18  |    |     | .09 | .40 |     |    |     | .32 | .14 | .01 |     | .10 |      | 1.19 |      |     |    |    |    |    | 5.99  |  |
| New Brunswick.....                         | Raritan.....    | .41          |     | *   | .98    |     |     |     |    |     | .02  | .49  |    | .01 | .19 | .28 |     |    |     | .24 | T.  |     |     | .10 |      | .53  | .08  |     |    |    |    |    | 3.33  |  |
| New Milford.**.....                        | Hackensack..... | .03          | .17 | \$  | \$     |     | .02 |     |    | \$  | \$   | \$   |    |     | .30 |     |     |    | .10 | .47 |     |     | .02 |     | 1.00 |      |      |     |    |    |    |    | \$    |  |
| Paterson.....                              | Passaic.....    | .40          |     | .04 | 1.96   |     | T.  |     |    | T.  | .87  |      |    | .03 | .31 | .17 |     |    | T.  | .48 |     | T.  |     | .09 |      | 1.05 | T.   |     |    |    |    |    | 5.40  |  |
| Plainfield.....                            | Raritan.....    | .28          |     | *   | 1.89   |     | .03 | T.  |    |     | .12  | 1.00 |    | .04 | .23 | .01 | T.  |    | *   | .46 | T.  |     |     | .13 |      | .93  | T.   |     |    |    |    |    | 5.12  |  |
| Ridgefield.....                            | Hackensack..... | .35          |     | .15 | 1.92   |     | .01 |     |    |     | .14  | 1.00 |    | .02 | .39 |     | T.  |    | *   | .61 |     | T.  |     | .15 |      | .83  | T.   |     |    |    |    |    | 5.57  |  |
| Somerville.....                            | Raritan.....    | .32          | .20 |     | .77    |     |     |     |    |     | .14  | 1.10 |    | .01 | .22 | .13 |     |    |     | .49 |     |     |     | .08 |      | .78  | .10  |     |    |    |    |    | 4.20  |  |
| South Orange.....                          | Rahway.....     | .29          |     | *   | 1.26   |     | T.  |     |    |     | .30  | 1.10 |    | T.  | *   | .79 |     |    | .37 | .41 | T.  | T.  |     | .11 |      | 1.67 | T.   |     |    |    |    |    | 6.30  |  |
| Verona.....                                | Passaic.....    | .45          |     | .12 | 2.06   |     | .02 |     |    |     | .03  | .76  |    | .03 | .51 | T.  | .01 |    | *   | .55 |     |     | .01 |     | .14  |      | 1.24 | .07 |    |    |    |    | 6.00  |  |
| Woodcliff Lake**.....                      | Hackensack..... |              |     |     |        |     |     |     |    |     |      |      |    | .02 | .41 |     | T.  |    | .15 | .30 |     |     |     | .18 |      | .82  |      |     |    |    |    |    | 5.46  |  |
| New York, N. Y***.....                     | Coast.....      | .15          |     | .41 | 1.85   |     | .01 |     |    |     | .25  | .91  |    |     | .41 |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| <i>The Southern Interior.</i>              |                 |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Belleplain.....                            | Tuckahoe.....   | .17          |     | .09 | .77    |     |     |     |    |     | .60  |      |    |     | .28 |     |     |    | .01 | .84 | .04 |     |     | .22 |      | .17  |      |     |    |    |    |    | 3.19  |  |
| Bridgeton.....                             | Coast.....      | .15          |     | .16 | .67    |     |     |     |    |     | .01  | 1.38 | T. |     | .36 |     |     |    | .06 | .44 | .20 |     |     | .15 |      | .46  |      |     | T. |    |    |    | 4.04  |  |
| Burlington.....                            | Delaware.....   | .30          |     | .05 | .50    |     |     |     |    |     | .02  | 1.40 |    | T.  | .12 | T.  |     |    |     | .21 | T.  |     |     | .16 |      | .24  | T.   |     |    |    |    |    | 3.00  |  |
| Clayton.....                               | Delaware.....   |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Freehold   .....                           | Coast.....      |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Hammonton.....                             | Mullica.....    |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Hightstown.....                            | Raritan.....    | .47          |     | .16 | .85    |     |     | T.  |    | *   | 1.00 |      |    | T.  | .24 | .21 |     |    | .02 | .04 | T.  |     |     | .30 |      | .47  | .13  |     |    |    |    |    | 3.89  |  |
| Imlaytown.....                             | Delaware.....   | .20          | .02 | \$  | \$     |     | .03 |     |    |     |      |      |    |     | .21 |     |     |    |     | .33 |     |     | .02 |     | .44  | .07  |      |     |    |    |    |    | \$    |  |
| Indian Mills.....                          | Mullica.....    | .42          |     | .20 | .60    |     |     |     |    | T.  | 1.62 |      |    | .03 | .37 | .12 |     |    | T.  | .50 |     |     |     | .20 |      | .75  |      |     |    |    |    |    | 4.81  |  |
| Lakewood.....                              | Metedeconk..... | .40          |     | .10 | 1.75   |     | T.  |     |    |     | .10  | .95  |    | T.  | .33 |     |     |    | T.  | .40 |     |     |     | .15 |      | .66  | .13  |     |    |    |    |    | 4.97  |  |
| Moorestown.....                            | Delaware.....   | .47          |     | *   | .82    |     |     |     |    | *   | .96  |      |    | T.  | .30 | .12 |     |    | T.  | .30 |     |     |     | .22 |      | .26  | .44  | .02 |    |    |    |    | 3.65  |  |
| Northfield.....                            | Coast.....      | .15          |     | .27 | 1.10   |     |     |     |    |     | .42  |      |    |     | .28 |     |     |    |     | .42 |     |     |     | .20 |      | .16  |      |     |    |    |    |    | 3.00  |  |
| Pleasantville   .....                      | Coast.....      | .58          |     | .03 | 1.36   | .01 |     | T.  |    |     | .43  | .09  |    |     | T.  | .29 |     |    |     | .29 |     |     |     | .22 |      | .16  |      |     |    |    |    |    | 3.46  |  |
| Runyon.....                                | Coast.....      | .45          |     | *   | 2.00   |     |     |     |    | *   | 1.10 |      |    |     | .27 | .37 |     |    |     | .38 |     |     |     | .11 |      | .52  | .26  |     |    |    |    |    | 5.46  |  |
| Trenton***.....                            | Delaware.....   | .22          |     | .83 | .41    |     | T.  |     |    | .16 | .64  |      |    | .03 | .37 |     |     |    | .06 | .38 |     |     | T.  | .22 |      | .60  |      |     |    |    |    |    | 3.92  |  |
| Tuckerton.....                             | Coast.....      | .45          |     | .10 | .40    |     |     |     |    |     | .60  |      |    |     | .35 |     |     |    |     | .65 |     |     |     | .20 |      | .25  |      | T.  |    |    |    |    | 3.00  |  |
| Vinland.....                               | Maurice.....    | .24          |     | .13 | .85    |     |     |     |    |     | 1.50 |      |    |     | .34 | .01 |     |    | T.  | .64 |     |     |     | .20 |      | .60  |      |     |    |    |    |    | 4.51  |  |
| Phila., Pa.**.....                         | Delaware.....   | .27          |     | .44 | .28    |     | T.  | T.  |    |     | .14  | .76  |    |     | .04 | .34 |     |    |     | .05 | .33 |     | T.  | .12 |      | .41  |      | T.  |    |    |    |    | 3.18  |  |
| <i>The Sea Coast.</i>                      |                 |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Asbury Park.....                           | Coast.....      | .13          |     | .40 | .80    |     |     |     |    | *   | .75  |      |    | .02 | .34 | .01 |     |    |     | .02 | .17 |     |     |     | .30  |      | 1.56 |     |    |    |    |    | 4.50  |  |
| Atlantic City***.....                      | do.....         | .08          |     | .74 | .56    |     | T.  |     |    |     | .12  | .37  | T. |     | .25 |     |     |    | .10 | .35 |     |     | T.  | .22 |      | .23  |      |     |    |    |    |    | 3.02  |  |
| Cape May City.....                         | do.....         | .02          |     | .18 | .66    |     |     |     | T. |     | .01  | .85  | T. |     | .37 |     |     |    | .03 | .39 |     |     |     | .16 |      | .19  |      | T.  |    |    |    |    | 2.86  |  |
| Long Branch**.....                         | do.....         |              |     |     |        |     |     |     |    |     |      |      |    |     |     |     |     |    |     |     |     |     |     |     |      |      |      |     |    |    |    |    |       |  |
| Sandy Hook***.....                         | do.....         | .27          |     | .35 | .80    |     | T.  |     |    |     | .18  | .52  |    |     | .03 | .49 |     |    |     | .05 | .28 |     |     |     | .15  |      | .92  |     |    |    |    |    | 4.04  |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           | Moisture                               |                                         | Sun-<br>shine |       |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------------------------------------|-----------------------------------------|---------------|-------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 8 p m |               |       |
|                       |              |         |      |        |      |                 | Miles per hour | Direction |                                        |                                         |               | Date  |
| Atlantic City.....    | 29.89        | 30.46   | 17   | 29.17  | 19   | 21.6            | 78             | ne.       | 4                                      | 81                                      | 77            | 49    |
| Cape May City.....    | 29.95        | 30.49   | 17   | 29.22  | 19   | 11.4            | 42             | ne.       | 3                                      | 80                                      | 80            | ..... |
| Long Branch.....      | 29.88        | 30.46   | 17   | 29.21  | 19   | 22.0            | 62             | nw.       | 19                                     | 71                                      | 67            | 59    |
| New York, N. Y.....   | 29.89        | 30.45   | 17   | 29.26  | 19   | 10.9            | 35             | sw.       | 25                                     | 74                                      | 67            | 38    |
| Philadelphia, Pa..... | 29.88        | 30.44   | 17   | 29.18  | 19   |                 |                |           |                                        |                                         |               |       |
| Ridgefield.....       | 29.87        | 30.44   | 17   | 29.19  | 19   | 21.0            | 66             | s.        | 25                                     | 74                                      | 71            | 48    |
| Sandy Hook.....       | 29.87        | 30.44   | 17   | 29.19  | 19   | 21.0            | 66             | s.        | 25                                     | 74                                      | 71            | 48    |
| Trenton.....          | 29.88        | 30.43   | 17   | 29.22  | 19   | 14.1            | 49             | ne.       | 3                                      | 73                                      | 67            | 48    |



## Daily Temperatures for February, 1926

| Stations                             | 1            | 2  | 3     | 4  | 5     | 6     | 7  | 8     | 9  | 10    | 11 | 12 | 13 | 14 | 15    | 16 | 17    | 18    | 19 | 20    | 21    | 22    | 23 | 24 | 25 | 26 | 27    | 28 | 29    | 30                | 31                | Mean              |
|--------------------------------------|--------------|----|-------|----|-------|-------|----|-------|----|-------|----|----|----|----|-------|----|-------|-------|----|-------|-------|-------|----|----|----|----|-------|----|-------|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |              |    |       |    |       |       |    |       |    |       |    |    |    |    |       |    |       |       |    |       |       |       |    |    |    |    |       |    |       |                   |                   |                   |
| Belvidere.....                       | Maximum..... | 38 | 37    | 33 | 30    | 38    | 34 | 39    | 36 | 23    | 33 | 29 | 33 | 33 | 35    | 45 | 36    | 40    | 48 | 44    | 30    | 31    | 41 | 38 | 41 | 48 | 47    | 38 | 38    | .....             | 37.0              |                   |
|                                      | Minimum..... | 28 | 27    | 21 | 19    | 21    | 0  | 25    | 15 | 4     | 15 | 8  | 11 | 17 | 27    | 33 | 20    | 9     | 20 | 28    | 17    | 25    | 21 | 16 | 16 | 18 | 34    | 25 | 14    | .....             | 19.1              |                   |
| Charlotteburg.....                   | Maximum..... | 38 | 32    | 32 | 27    | 30    | 34 | 36    | 36 | 26    | 24 | 18 | 29 | 31 | 38    | 42 | 41    | 39    | 49 | 46    | ..... | 32    | 32 | 32 | 39 | 46 | 41    | 38 | 34    | .....             | 34.9 <sup>a</sup> |                   |
|                                      | Minimum..... | 20 | 22    | 15 | 23    | 25    | 0  | 28    | 13 | -9    | 14 | 3  | 14 | 15 | 29    | 32 | 17    | 10    | 20 | 29    | 13    | 20    | 23 | 15 | 12 | 10 | 85    | 22 | 10    | .....             | 17.1              |                   |
| Dover.....                           | Maximum..... | 36 | 34    | 33 | 28    | 30    | 33 | 37    | 32 | 25    | 26 | 18 | 30 | 30 | 37    | 44 | 36    | 39    | 48 | 44    | ..... | 32    | 40 | 33 | 39 | 47 | 44    | 38 | 34    | .....             | 35.1 <sup>a</sup> |                   |
|                                      | Minimum..... | 25 | 24    | 21 | 21    | 18    | 7  | 29    | 11 | -1    | 15 | 4  | 10 | 19 | 30    | 37 | 44    | 36    | 39 | 48    | 44    | ..... | 32 | 40 | 33 | 39 | 47    | 44 | 38    | 34                | .....             | 35.1 <sup>a</sup> |
| Layton.....                          | Maximum..... | 37 | 33    | 30 | 30    | 28    | 30 | 36    | 34 | 21    | 28 | 26 | 29 | 32 | 38    | 44 | 40    | 38    | 46 | 42    | 28    | 30    | 30 | 28 | 40 | 45 | 47    | 30 | 36    | .....             | 32.2              |                   |
|                                      | Minimum..... | 27 | 25    | 18 | 19    | 19    | -5 | 28    | 18 | -11   | 15 | 5  | 9  | 18 | 26    | 35 | 18    | 2     | 20 | 23    | 15    | 19    | 20 | 14 | 13 | 12 | 30    | 23 | 12    | .....             | 16.6              |                   |
| Newton.....                          | Maximum..... | 36 | 34    | 33 | 33    | 34    | 35 | 36    | 33 | 15    | 25 | 21 | 33 | 29 | 32    | 38 | 44    | 39    | 48 | 42    | 30    | 33    | 34 | 32 | 37 | 46 | 45    | 33 | 34    | .....             | 34.5              |                   |
|                                      | Minimum..... | 26 | 26    | 20 | 16    | 12    | 10 | ..... | 12 | 0     | 11 | 5  | 9  | 19 | 25    | 32 | 17    | 8     | 25 | 22    | 14    | 20    | 20 | 13 | 13 | 19 | 31    | 22 | 10    | .....             | 16.9 <sup>a</sup> |                   |
| Phillipsburg.....                    | Maximum..... | 44 | 38    | 40 | 30    | 37    | 40 | 43    | 42 | ..... | 31 | 19 | 34 | 35 | 39    | 43 | ..... | 37    | 47 | 40    | 34    | 32    | 38 | 34 | 34 | 45 | 42    | 38 | 35    | .....             | 37.3              |                   |
|                                      | Minimum..... | 31 | 22    | 22 | 18    | ..... | 22 | 14    | 16 | 12    | 13 | 14 | 24 | 34 | ..... | 15 | 14    | 27    | 19 | 20    | 26    | 19    | 19 | 19 | 19 | 30 | 18    | 20 | ..... | 20.3 <sup>d</sup> |                   |                   |
| Sussex.....                          | Maximum..... | 36 | 35    | 33 | ..... | 30    | 32 | 36    | 31 | 18    | 24 | 20 | 33 | 29 | 34    | 46 | 40    | 40    | 47 | 42    | 32    | ..... | 31 | 30 | 41 | 45 | 46    | 36 | 36    | .....             | 34.8 <sup>b</sup> |                   |
|                                      | Minimum..... | 27 | 25    | 15 | 20    | 18    | 2  | 29    | 10 | -9    | 13 | 5  | 10 | 15 | 27    | 33 | 19    | 9     | 20 | 29    | 15    | ..... | 19 | 14 | 14 | 13 | 37    | 24 | 12    | .....             | 17.2 <sup>a</sup> |                   |
| The Red Sandstone Plain.             |              |    |       |    |       |       |    |       |    |       |    |    |    |    |       |    |       |       |    |       |       |       |    |    |    |    |       |    |       |                   |                   |                   |
| Bergen Point.....                    | Maximum..... | 37 | 36    | 36 | 31    | 35    | 37 | 39    | 34 | 28    | 29 | 23 | 33 | 32 | 38    | 46 | 41    | 41    | 51 | 46    | 32    | 32    | 35 | 36 | 40 | 49 | 45    | 35 | 36    | .....             | 36.9              |                   |
|                                      | Minimum..... | 27 | 25    | 25 | 25    | 15    | 25 | 20    | 13 | 19    | 10 | 14 | 25 | 30 | 34    | 24 | 18    | ..... | 31 | 20    | 28    | 25    | 20 | 19 | 25 | 35 | ..... | 17 | ..... | 22.8 <sup>a</sup> |                   |                   |
| Boonton§§.....                       | Maximum..... | 42 | 36    | 27 | 33    | 33    | 38 | 40    | 36 | 24    | 27 | 22 | 33 | 39 | 39    | 46 | 28    | 39    | 47 | 42    | 31    | 30    | 37 | 31 | 38 | 47 | 44    | 30 | 35    | .....             | 35.1              |                   |
|                                      | Minimum..... | 27 | 24    | 17 | 20    | 20    | 1  | 4     | 11 | -2    | 2  | 6  | 8  | 14 | 18    | 22 | 22    | 8     | 12 | 23    | 16    | 17    | 20 | 15 | 12 | 13 | 23    | 25 | 13    | .....             | 14.7              |                   |
| Elizabeth.....                       | Maximum..... | 40 | 38    | 37 | 31    | 36    | 37 | 42    | 36 | 27    | 27 | 25 | 36 | 34 | 36    | 48 | 43    | 40    | 50 | 45    | 33    | 32    | 38 | 36 | 41 | 49 | 49    | 40 | 36    | .....             | 37.9              |                   |
|                                      | Minimum..... | 29 | 27    | 26 | 24    | 21    | 10 | 29    | 17 | 8     | 18 | 4  | 13 | 20 | 30    | 31 | 24    | 12    | 24 | 33    | 18    | 28    | 26 | 18 | 13 | 20 | 39    | 27 | 15    | .....             | 21.6              |                   |
| Flemington.....                      | Maximum..... | 41 | 37    | 36 | 31    | 37    | 37 | 42    | 38 | 29    | 31 | 28 | 34 | 33 | 35    | 47 | 42    | 40    | 49 | 41    | 33    | 32    | 36 | 38 | 45 | 48 | 47    | 40 | 38    | .....             | 38.1              |                   |
|                                      | Minimum..... | 30 | 28    | 23 | 23    | 22    | 5  | 28    | 18 | 8     | 20 | 9  | 12 | 17 | 30    | 34 | 23    | 11    | 22 | 30    | 19    | 28    | 25 | 19 | 13 | 16 | 39    | 29 | 16    | .....             | 21.3              |                   |
| Highwood.....                        | Maximum..... | 38 | 36    | 35 | 30    | 30    | 34 | 39    | 40 | 26    | 26 | 20 | 33 | 31 | 39    | 45 | 44    | 38    | 46 | 41    | 32    | 30    | 34 | 31 | 36 | 46 | 46    | 35 | 35    | .....             | 35.6              |                   |
|                                      | Minimum..... | 27 | 25    | 22 | 22    | 20    | 7  | 31    | 11 | -1    | 15 | 7  | 12 | 15 | 30    | 25 | 22    | 11    | 20 | 31    | 18    | 25    | 24 | 18 | 12 | 18 | 35    | 25 | 16    | .....             | 19.4              |                   |
| Jersey City.....                     | Maximum..... | 34 | 38    | 34 | 31    | 35    | 36 | 40    | 31 | 29    | 26 | 22 | 34 | 35 | 38    | 47 | 33    | 40    | 50 | 46    | 32    | 36    | 38 | 34 | 38 | 50 | 48    | 34 | 36    | .....             | 36.6              |                   |
|                                      | Minimum..... | 28 | 26    | 25 | 24    | 18    | 27 | 19    | 16 | 12    | 8  | 13 | 24 | 32 | 33    | 24 | 17    | 31    | 29 | 19    | 27    | 24    | 17 | 20 | 26 | 32 | 28    | 16 | ..... | 22.7              |                   |                   |
| Lambertville.....                    | Maximum..... | 38 | 36    | 34 | 29    | 29    | 36 | 39    | 35 | 25    | 28 | 25 | 31 | 35 | 36    | 44 | 39    | 37    | 46 | 43    | 33    | 30    | 38 | 30 | 36 | 48 | 47    | 38 | 36    | .....             | 35.8              |                   |
|                                      | Minimum..... | 29 | 26    | 23 | 23    | 21    | 14 | 32    | 19 | 13    | 19 | 8  | 11 | 23 | 29    | 34 | 22    | 11    | 26 | 29    | 16    | ..... | 23 | 18 | 13 | 26 | 38    | 24 | 15    | .....             | 21.7 <sup>a</sup> |                   |
| Little Falls§§.....                  | Maximum..... | 33 | 35    | 25 | 27    | 33    | 39 | 41    | 30 | 24    | 23 | 20 | 36 | 36 | 35    | 47 | 27    | 40    | 51 | 44    | 28    | 30    | 37 | 37 | 40 | 43 | 48    | 30 | 37    | .....             | 34.9              |                   |
|                                      | Minimum..... | 28 | 25    | 20 | 23    | 17    | 5  | 11    | 10 | 2     | 11 | 7  | 11 | 17 | 24    | 27 | 23    | 10    | 22 | 27    | 18    | 20    | 22 | 17 | 15 | 16 | 27    | 28 | 16    | .....             | 17.8              |                   |
| New Brunswick.....                   | Maximum..... | 39 | 36    | 35 | 31    | 33    | 38 | 40    | 36 | 26    | 27 | 27 | 33 | 33 | 39    | 46 | 41    | 39    | 50 | 44    | 32    | 33    | 36 | 34 | 36 | 50 | 51    | 37 | 36    | .....             | 37.1              |                   |
|                                      | Minimum..... | 29 | 28    | 24 | 24    | 22    | 7  | 29    | 19 | 10    | 18 | 5  | 12 | 19 | 30    | 34 | 23    | 11    | 22 | 30    | 18    | 27    | 24 | 19 | 9  | 18 | 37    | 27 | 16    | .....             | 21.1              |                   |
| Paterson.....                        | Maximum..... | 42 | 36    | 35 | 31    | 35    | 36 | 42    | 35 | 25    | 25 | 21 | 36 | 32 | 38    | 42 | 42    | 41    | 48 | 46    | 32    | 32    | 36 | 35 | 39 | 48 | 48    | 37 | 37    | .....             | 36.9              |                   |
|                                      | Minimum..... | 29 | ..... | 24 | 24    | 20    | 13 | 32    | 18 | 10    | 18 | 9  | 14 | 23 | 30    | 30 | 25    | 16    | 25 | 32    | 19    | 25    | 29 | 18 | 17 | 23 | 27    | 16 | ..... | 36.9              |                   |                   |
| Plainfield.....                      | Maximum..... | 34 | 38    | 34 | 31    | 35    | 34 | 42    | 34 | 25    | 26 | 20 | 35 | 33 | 35    | 47 | 32    | 41    | 50 | 41    | 32    | 36    | 35 | 35 | 39 | 49 | 48    | 35 | 37    | .....             | 36.2              |                   |
|                                      | Minimum..... | 28 | 26    | 22 | 23    | 18    | 1  | 26    | 15 | 3     | 12 | 5  | 9  | 16 | 29    | 32 | 23    | 7     | 19 | 29    | 17    | 27    | 24 | 17 | 13 | 15 | 35    | 24 | 15    | .....             | 18.9              |                   |
| Ridgefield.....                      | Maximum..... | 34 | 36    | 28 | 29    | 34    | 40 | 40    | 30 | 27    | 21 | 20 | 33 | 34 | 38    | 46 | 36    | 40    | 48 | 44    | 31    | 30    | 35 | 25 | 41 | 47 | 48    | 32 | 35    | .....             | 35.4              |                   |
|                                      | Minimum..... | 26 | 24    | 22 | 21    | 19    | 14 | 29    | 15 | 5     | 14 | 7  | 11 | 20 | 29    | 29 | 18    | 15    | 25 | 22    | 18    | 24    | 18 | 15 | 22 | 30 | 17    | 15 | ..... | 19.7              |                   |                   |
| Somerville.....                      | Maximum..... | 41 | 38    | 37 | 32    | 35    | 37 | 41    | 32 | 29    | 28 | 29 | 33 | 35 | 38    | 48 | 42    | 43    | 49 | 44    | 33    | 33    | 37 | 35 | 40 | 49 | 48    | 40 | 38    | .....             | 38.2              |                   |
|                                      | Minimum..... | 30 | 24    | 24 | 24    | 23    | 2  | 22    | 15 | 5     | 19 | 7  | 13 | 15 | 30    | 34 | 24    | 9     | 20 | 32    | 19    | 27    | 23 | 18 | 9  | 18 | 40    | 28 | 16    | .....             | 20.4              |                   |
| South Orange.....                    | Maximum..... | 34 | 38    | 34 | 30    | 32    | 36 | 41    | 30 | 24    | 26 | 20 | 35 | 31 | 38    | 46 | 36    | 40    | 48 | 44    | 30    | 32    | 38 | 32 | 38 | 48 | 48    | 35 | 35    | .....             | 35.6              |                   |
|                                      | Minimum..... | 27 | 28    | 24 | 24    | 20    | 13 | 27    | 15 | 12    | 10 | 8  | 13 | 24 | 31    | 32 | 20    | 16    | 27 | 22    | 19    | 27    | 25 | 19 | 15 | 23 | 32    | 18 | 15    | .....             | 20.9              |                   |
| Verona.....                          | Maximum..... | 36 | 34    | 32 | 29    | 30    | 33 | 38    | 31 | 23    | 23 | 18 | 32 | 29 | 37    | 44 | 34    | 38    | 47 | ..... | 30    | 31    | 36 | 30 | 36 | 48 | 42    | 33 | 33    | .....             | 33.8 <sup>a</sup> |                   |
|                                      | Minimum..... | 26 | 24    | 22 | 22    | 19    | 14 | 31    | 14 | 7     | 15 | 6  | 12 | 22 | 28    | 31 | 21    | 13    | 28 | ..... | 16    | 24    | 23 | 16 | 14 | 23 | 33    | 25 | 18    | .....             | 20.3 <sup>a</sup> |                   |
| New York, N. Y.....                  | Maximum..... | 34 | 37    | 33 | 30    | 34    | 37 | 39    | 29 | 30    | 26 | 22 | 34 | 36 | 39    | 46 | 36    | 39    | 50 | 46    | 32    | 36    | 37 | 33 | 37 | 50 | 48    | 33 | 35    | .....             | 36.4              |                   |
|                                      | Minimum..... | 26 | 26    | 25 | 24    | 21    | 20 | 27    | 19 | 17    | 12 | 8  | 14 | 26 | 33    | 33 | 21    | 19    | 34 | 22    | 19    | 27    | 24 | 16 |    |    |       |    |       |                   |                   |                   |



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VN 3

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

APR 30 1926

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI.

MARCH, 1926.

No. 3

### GENERAL SUMMARY.

The most significant features of March weather were the unusual amount of sunshine and clear sky, and the prevailing low temperatures. It was the coldest March in ten years, and was in marked contrast with that of last year, and especially with that of 1921, which was 14° warmer. In spite of the persistent low temperatures the month was much more pleasant than March ordinarily is, because of the infrequency of stormy weather and the absence of snow. Except on the 1st and 7th, warmth was persistently subnormal until the week of the 19-25th, which was warm, terminating with temperatures well up in the 70's, but thereafter it was cold with continuous frosts and freezing temperatures. Snow on the 8th and 26th hardly averaged 2 inches in northernmost localities, and was but a trace along shore. The few occurrences of sleet were unimportant.

This uniform cold weather retarded the opening of usual spring activities out of doors and many forms of farming and construction work were delayed. Vegetation remained in almost complete dormancy, and general agricultural conditions were some three weeks or more behind that of last year.

Storm warnings were displayed along shore on the 1st, 2d, 3d, 7th, 8th, 25th, 26th, 30th, and 31st.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 35.1°, which was 3.5° below normal. The highest temperature was 79° at Tuckerton on the 25th, and the lowest, zero, at Layton on the 6th. The greatest daily range of temperature was 48° at Runyon on the 22d. The highest monthly mean temperature was 38.9° at Vineland, and the lowest, 31.0° at Charlotteburg and Layton.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -0.7°; Red Sandstone Plain, -1.3°; Southern Interior, -0.9°; Sea Coast, -0.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 45 stations, was 2.25 inches, which was 1.67 inches below normal. The average total snowfall at eighteen selected stations was 0.4 inch, which was 5.3 inches below normal. The greatest monthly precipitation was 3.15 inches, at South Orange, and the least, 1.52 inches at Cape May City. The greatest amount of precipitation in any 24 consecutive hours was 1.95 inches at South Orange on the 7-8th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 7, or 4 less than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.48 inches; Red Sandstone Plain, -1.68 inches; Southern Interior, -1.87 inches; Sea Coast, -2.52 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 15 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 68 miles per hour from the east at Atlantic City on the 31st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 16, which was 4 more than normal; partly cloudy, 9, or normal; cloudy, 6, or 4 less than normal. The per cent of possible sunshine was 67, which was 6 per cent above normal.

### MISCELLANEOUS.

The mean stage of the Delaware river at Phillipsburg was 5.4 feet, and the highest 8.0 feet on the 21st. At Trenton the mean daily stage was 3.2 feet, which was 0.9 foot below normal. The highest stage was 5.0 feet on the 27th.

The mean atmospheric pressure, reduced to sea level, was 29.95 inches, which was 0.06 inch below normal. The highest reading was 30.63 inches at Trenton and Verona on the 6th, and the lowest, 29.25 inches at Atlantic City on the 31st.

Dense fog was reported on the 7th, 20th, and 31st. Sleet occurred on the 7th, 26th, and 31st. Thunderstorms were recorded on the 7th, 18th, 20th, and 31st. Solar halos were observed on the 11th and 20th and a lunar halo on the 22d. The aurora was observed on the 9th. No hail was reported.

### COMPARATIVE DATA FOR MARCH

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 30.4        | 66      | 2      | 1.10          | 2.29      | 0.23  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 37.7        | 70      | 9      | 3.70          | 5.27      | 2.59  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 37.7        | 61      | 8      | 3.34          | 5.45      | 2.19  | .....    | .....       | .....         | 13     | 10                     |
| 1888..... | 32.8        | 72      | 0      | 5.71          | 8.22      | 3.75  | .....    | .....       | .....         | 12     | 11                     |
| 1889..... | 40.5        | 67      | 19     | 3.79          | 6.49      | 1.98  | .....    | .....       | .....         | 13     | 8                      |
| 1890..... | 37.6        | 78      | 0      | 6.08          | 7.92      | 4.14  | .....    | .....       | .....         | 13     | 14                     |
| 1891..... | 37.2        | 68      | 4      | 5.06          | 8.02      | 2.05  | .....    | 8           | 10            | 13     | 12                     |
| 1892..... | 34.4        | 64      | 6      | 4.75          | 7.21      | 3.11  | .....    | 10          | 12            | 9      | 9                      |
| 1893..... | 37.0        | 68      | 6      | 3.73          | 6.26      | 2.36  | .....    | 10          | 10            | 11     | 10                     |
| 1894..... | 44.2        | 83      | 12     | 1.77          | 2.65      | 1.09  | .....    | 12          | 11            | 8      | 10                     |
| 1895..... | 36.7        | 72      | 7      | 3.16          | 4.66      | 1.77  | 4.0      | 12          | 8             | 11     | 10                     |
| 1896..... | 34.0        | 69      | -8     | 5.34          | 7.38      | 3.14  | 13.2     | 13          | 8             | 10     | 11                     |
| 1897..... | 40.0        | 77      | 18     | 2.78          | 4.32      | 1.55  | 1.6      | 11          | 9             | 11     | 10                     |
| 1898..... | 45.1        | 77      | 16     | 3.33          | 4.25      | 2.56  | 3.0      | 9           | 10            | 12     | 12                     |
| 1899..... | 38.6        | 73      | 13     | 6.54          | 9.58      | 3.45  | 5.4      | 7           | 10            | 14     | 13                     |
| 1900..... | 35.6        | 67      | -9     | 3.51          | 4.96      | 2.48  | 7.0      | 12          | 12            | 7      | 10                     |
| 1901..... | 39.2        | 75      | -8     | 4.64          | 8.07      | 2.40  | 0.9      | 9           | 10            | 12     | 12                     |
| 1902..... | 43.9        | 77      | 0      | 4.34          | 7.20      | 3.16  | 5.7      | 12          | 10            | 9      | 11                     |
| 1903..... | 47.6        | 79      | 13     | 5.13          | 8.53      | 3.60  | 0        | 11          | 8             | 12     | 10                     |
| 1904..... | 37.2        | 72      | 1      | 3.43          | 4.76      | 2.02  | 4.5      | 11          | 8             | 12     | 13                     |
| 1905..... | 39.8        | 87      | -7     | 3.95          | 5.06      | 2.80  | 2.6      | 14          | 8             | 9      | 12                     |
| 1906..... | 34.4        | 62      | -15    | 5.09          | 6.77      | 2.91  | 11.2     | 10          | 9             | 12     | 11                     |
| 1907..... | 41.2        | 88      | -11    | 3.04          | 4.38      | 1.81  | 11.5     | 13          | 10            | 8      | 10                     |
| 1908..... | 41.8        | 89      | 7      | 2.80          | 4.92      | 1.06  | 3.5      | 11          | 9             | 11     | 12                     |
| 1909..... | 38.3        | 74      | -6     | 3.48          | 4.66      | 2.31  | 4.6      | 12          | 10            | 9      | 13                     |
| 1910..... | 44.5        | 88      | 10     | 1.22          | 2.36      | 0.29  | 1.1      | 14          | 10            | 7      | 6                      |
| 1911..... | 37.6        | 76      | 3      | 3.38          | 4.50      | 2.64  | 5.3      | 10          | 12            | 9      | 11                     |
| 1912..... | 36.9        | 72      | 3      | 7.61          | 9.61      | 5.95  | 6.6      | 9           | 11            | 11     | 14                     |
| 1913..... | 44.8        | 79      | 1      | 5.15          | 7.73      | 2.47  | 0.1      | 10          | 9             | 12     | 12                     |
| 1914..... | 35.4        | 75      | -6     | 3.65          | 6.45      | 2.02  | 20.5     | 13          | 10            | 8      | 10                     |
| 1915..... | 36.1        | 63      | 11     | 1.13          | 1.65      | 0.58  | 7.4      | 20          | 7             | 4      | 3                      |
| 1916..... | 31.7        | 71      | -7     | 3.48          | 4.96      | 2.38  | 19.3     | 13          | 8             | 10     | 12                     |
| 1917..... | 38.2        | 72      | 0      | 4.65          | 7.14      | 2.28  | 9.8      | 12          | 8             | 11     | 13                     |
| 1918..... | 41.8        | 82      | 8      | 2.06          | 3.76      | 0.99  | 0.7      | 17          | 7             | 7      | 9                      |
| 1919..... | 43.2        | 77      | 12     | 5.32          | 7.40      | 3.77  | 1.6      | 14          | 7             | 10     | 13                     |
| 1920..... | 39.4        | 79      | -8     | 3.80          | 5.36      | 2.29  | 5.6      | 17          | 5             | 9      | 10                     |
| 1921..... | 49.1        | 92      | 11     | 3.03          | 4.65      | 1.80  | T.       | 14          | 10            | 7      | 11                     |
| 1922..... | 41.1        | 82      | 2      | 4.52          | 7.10      | 3.42  | 3.7      | 12          | 6             | 13     | 13                     |
| 1923..... | 38.0        | 81      | -3     | 4.09          | 6.73      | 2.13  | 6.3      | 17          | 6             | 8      | 10                     |
| 1924..... | 38.8        | 76      | 5      | 2.51          | 5.69      | 0.80  | 2.7      | 16          | 6             | 9      | 8                      |
| 1925..... | 43.3        | 80      | 1      | 3.47          | 6.09      | 1.50  | 0.3      | 16          | 6             | 9      | 9                      |
| 1926..... | 35.2        | 79      | 0      | 2.25          | 3.15      | 1.52  | 0.4      | 16          | 9             | 6      | 7                      |



## Climatological Data for March, 1926

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        | Precipitation, in inches |                      |       |                           |                       | No. of days               |                             |       |            |        | Observers                   |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|--------------------------|----------------------|-------|---------------------------|-----------------------|---------------------------|-----------------------------|-------|------------|--------|-----------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date                     | Greatest daily range | Total | Departure from the normal | Greatest, in 24 hours | Total snowfall (unmelted) | Precipitation on 10 or more | Clear | Pt. cloudy | Cloudy |                             |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |                          |                      |       |                           |                       |                           |                             |       |            |        |                             |
| Belvidere.....                              | Warren.....     | 259             | 35                      | 34.6                         | -3.5                      | 67      | 25    | 8      | 6                        | 39                   | 1.98  | -1.87                     | 0.75                  | T.                        | 7                           | 24    | 2          | 5      | Miss C. S. Hixson.          |
| Charlotteburg.....                          | Passaic.....    | 719             | 34                      | 31.0*                        | -4.8                      | 64      | 25    | 5      | 6                        | 43                   | 1.98  | -2.22                     | 0.97                  | 1.0                       | 6                           | 9     | 8          | 14     | Newark Water Dept.          |
| Culvers Lakel.....                          | Sussex.....     | 848             | 25                      | .....                        | .....                     | .....   | ..... | 2      | 6                        | .....                | 1.86  | -1.61                     | 0.67                  | 5.5                       | 8                           | 15    | 10         | 6      | Brice E. Riker.             |
| Dover.....                                  | Norris.....     | 600             | 42                      | 33.0*                        | -2.2                      | 65      | 25    | 7      | 6                        | 38                   | 2.32  | -1.67                     | 1.17                  | 0.5                       | 8                           | 10    | 17         | 4      | William C. Harris.          |
| Layton.....                                 | Sussex.....     | 480             | 25                      | 31.0                         | -4.6                      | 66      | 25    | 0      | 6                        | 39                   | 2.31  | -1.06                     | 0.68                  | 3.0                       | 7                           | 14    | 5          | 12     | A. M. Depue.                |
| Newton.....                                 | Sussex.....     | 769             | 42                      | 31.8                         | -3.7                      | 64      | 25    | 5      | 6                        | 34                   | 2.00  | -1.57                     | 1.03                  | 3.0                       | 8                           | 11    | 10         | 10     | Irving J. Kern.             |
| Phillipsburg.....                           | Warren.....     | 363             | 43                      | 33.8*                        | -4.3                      | 67      | 25    | 11     | 5                        | 32                   | 1.61  | -1.33                     | 0.77                  | 0.1                       | 7                           | 21    | 5          | 6      | Town Engineer.              |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 31.2*                        | -5.1                      | 65      | 25    | 4      | 6                        | .....                | 1.93  | -1.66                     | 0.97                  | T.                        | 7                           | 19    | 6          | 6      | A. J. W. Mowatt             |
| Means and extremes.....                     | .....           | .....           | .....                   | 32.1                         | -4.0                      | 67      | 25    | 0      | 6                        | 43                   | 2.05  | -1.67                     | 1.17                  | 1.9                       | 7                           | 15    | 8          | 8      | nw.                         |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |                          |                      |       |                           |                       |                           |                             |       |            |        |                             |
| Bergen Point.....                           | Hudson.....     | 37              | 29                      | 36.4*                        | -3.1                      | 66      | 25    | 14     | 5                        | 35                   | 2.75  | -1.25                     | 1.17                  | 0.4                       | 7                           | 10    | 17         | 4      | William H. Mitchell         |
| Boonton.....                                | Morris.....     | 400             | 36                      | 32.2                         | -4.4                      | 64      | 25    | 5      | 6                        | 39                   | 1.65  | -2.29                     | 1.13                  | .....                     | 10                          | 21    | 0          | 10     | John Kilne.                 |
| Chatham.....                                | Norris.....     | 185             | 22                      | .....                        | .....                     | .....   | ..... | .....  | 6                        | 39                   | 1.65  | -1.21                     | 0.86                  | .....                     | 6                           | 22    | 6          | 3      | Paul Molitor, Sr.           |
| Elizabeth.....                              | Union.....      | 45              | 47                      | 36.4                         | -2.4                      | 67      | 25    | 10     | 6                        | 39                   | 2.29  | -1.93                     | 1.27                  | 0.5                       | 8                           | 15    | 11         | 5      | L. B. Bounett.              |
| Flemington.....                             | Hunterdon.....  | 140             | 540                     | 35.8                         | -4.3                      | 68      | 25    | 9      | 6                        | 38                   | 2.27  | -1.62                     | 1.06                  | T.                        | 7                           | 21    | 4          | 6      | Hiram E. Deats.             |
| Highwood.....                               | Bergen.....     | 90              | 38                      | 33.8                         | -3.2                      | 67      | 25    | 7      | 6                        | 37                   | 3.14  | -1.04                     | 1.33                  | 0.4                       | 8                           | 12    | 7          | 12     | Charles J. Bates.           |
| Jersey City.....                            | Hudson.....     | 10              | 25                      | 35.6                         | -3.6                      | 66      | 25    | 13     | 5                        | 27                   | 2.73  | -1.42                     | 1.29                  | 1.3                       | 8                           | 14    | 12         | 5      | S. K. Pearson, Jr.          |
| Lambertville.....                           | Hunterdon.....  | 370             | 39                      | 34.3                         | -5.1                      | 67      | 25    | 8      | 6                        | 33                   | 2.44  | -1.59                     | 1.00                  | 2.7                       | 9                           | 16    | 8          | 7      | Wm. J. Lauderdale.          |
| Little Falls.....                           | Passaic.....    | 180             | 323                     | 33.6                         | -4.4                      | 66      | 25    | 9      | 6                        | 37                   | 1.97  | -1.62                     | 1.13                  | 1.0                       | 9                           | 17    | 8          | 6      | Passaic Consolid. Water Co  |
| New Brunswick.....                          | Middlesex.....  | 110             | 73                      | 35.6                         | -3.2                      | 68      | 25    | 9      | 6                        | 34                   | 1.89  | -1.92                     | 0.93                  | T.                        | 7                           | 14    | 12         | 5      | N. J. Experiment Station.   |
| New Milford.....                            | Bergen.....     | 9               | 8                       | .....                        | .....                     | .....   | ..... | .....  | .....                    | .....                | 2.58  | .....                     | 1.27                  | .....                     | 6                           | ..... | .....      | .....  | Hackensack Water Co         |
| Paterson.....                               | Passaic.....    | 80              | 55                      | 36.3                         | -2.5                      | 68      | 25    | 12     | 6                        | 35                   | 2.55  | -1.83                     | 1.25                  | 1.0                       | 7                           | 16    | 7          | 8      | Marion T. Probert.          |
| Plainfield.....                             | Union.....      | 120             | 33                      | 34.5                         | -4.3                      | 67      | 25    | 7      | 6                        | 39                   | 2.41  | -1.86                     | 1.34                  | 0.6                       | 7                           | 13    | 13         | 5      | E. D. Pearson.              |
| Ridgefield.....                             | Bergen.....     | 80              | 9                       | 34.2                         | .....                     | 67      | 25    | 10     | 6                        | 32                   | 2.73  | .....                     | 1.19                  | 1.2                       | 9                           | 13    | 9          | 9      | George P. Kirsten.          |
| Somerville.....                             | Somerset.....   | 70              | 33                      | 35.2                         | -3.0                      | 65      | 25    | 6      | 6                        | 35                   | 2.17  | -1.79                     | 0.98                  | T.                        | 6                           | 22    | 5          | 4      | H. B. TenBrink.             |
| South Orange.....                           | Essex.....      | 200             | 56                      | 34.7                         | -2.4                      | 66      | 25    | 11     | 6                        | 29                   | 3.15  | -0.71                     | 1.95                  | 0.7                       | 7                           | 12    | 10         | 9      | William H. Meeder.          |
| Tuckerton.....                              | Essex.....      | 490             | .....                   | 33.3                         | .....                     | 65      | 25    | 8      | 6                        | 29                   | 2.52  | 1.02                      | 1.5                   | 9                         | 16                          | 6     | 9          | nw     | Luther Davis.               |
| Woodcliff Lakel.....                        | Bergen.....     | 100             | 8                       | .....                        | .....                     | .....   | ..... | .....  | .....                    | .....                | 1.89  | .....                     | 1.00                  | .....                     | 6                           | ..... | .....      | .....  | Hackensack Water Co.        |
| New York, N. Y.....                         | .....           | 365             | 56                      | 35.1                         | -2.6                      | 66      | 25    | 13     | 5                        | 26                   | 2.52  | -1.58                     | 1.17                  | 1.2                       | 8                           | 11    | 12         | 8      | U. S. Weather Bureau.       |
| Means and extremes.....                     | .....           | .....           | .....                   | 34.8                         | -3.5                      | 68      | 25    | 5      | 6                        | 39                   | 2.43  | -1.58                     | 1.95                  | 0.8                       | 8                           | 16    | 8          | 7      | nw.                         |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |                          |                      |       |                           |                       |                           |                             |       |            |        |                             |
| Belleplain.....                             | Cape May.....   | 30              | 32                      | 36.6                         | -4.5                      | 77      | 25    | 4      | 6                        | 40                   | 2.27  | -1.43                     | 0.54                  | T.                        | 9                           | 18    | 7          | 6      | Thomas J. Durell.           |
| Bridgeton.....                              | Cumberland..... | 90              | 45                      | 37.6                         | -4.7                      | 76      | 25    | 10     | 6                        | 33                   | 1.86  | -2.32                     | 0.77                  | .....                     | 8                           | 20    | 5          | 4      | Harold K. Trvon.            |
| Burlington.....                             | Burlington..... | 12              | 40                      | .....                        | .....                     | 68      | 25    | 14     | 6                        | 35                   | 2.09  | -1.62                     | 0.70                  | T.                        | 6                           | 13    | 12         | 6      | Public Service Power Co.    |
| Clayton.....                                | Gloucester..... | 130             | 30                      | 37.4                         | -4.3                      | 76      | 25    | 10     | 6                        | 38                   | 1.55  | -2.03                     | 0.80                  | 0.5                       | 8                           | 20    | 5          | 6      | nw.                         |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | .....                    | .....                | ..... | .....                     | .....                 | .....                     | .....                       | ..... | .....      | .....  | .....                       |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 35.4                         | -5.0                      | 70      | 25    | 6      | 6                        | 37                   | 2.17  | -1.87                     | 1.12                  | T.                        | 7                           | 23    | 5          | 3      | Harvey M. Grover.           |
| Imahstown.....                              | Monmouth.....   | 115             | 36                      | .....                        | .....                     | .....   | ..... | 7      | 6                        | .....                | 1.81  | -2.27                     | 0.98                  | T.                        | 8                           | 19    | 7          | 5      | Frank M. Lawrence.          |
| Indian Mills.....                           | Burlington..... | 76              | 37                      | 36.6                         | -8.9                      | 75      | 25    | 8      | 6                        | 36                   | 2.63  | -1.40                     | 0.99                  | 1.0                       | 7                           | 11    | 14         | 6      | James M. Armstrong.         |
| Lakewood.....                               | Ocean.....      | 54              | 22                      | 35.1                         | -4.5                      | 74      | 25    | 6      | 6                        | 42                   | 2.47  | -1.51                     | 0.94                  | T.                        | 8                           | 14    | 11         | 6      | R. W. Holman.               |
| Moorestown.....                             | Burlington..... | 75              | 63                      | 37.6                         | -1.6                      | 72      | 25    | 10     | 6                        | 34                   | 2.24  | -1.52                     | 1.03                  | T.                        | 6                           | 17    | 8          | 6      | John B. Varrick.            |
| Northfield.....                             | Atlantic.....   | 25              | 19                      | .....                        | .....                     | .....   | ..... | .....  | .....                    | .....                | 2.58  | -0.91                     | 0.90                  | T.                        | 8                           | ..... | .....      | .....  | William L. Flick.           |
| Pleasantville.....                          | Atlantic.....   | 26              | 28                      | 35.4                         | .....                     | 78      | 25    | 7      | 6                        | 45                   | 2.44  | -1.03                     | 0.54                  | .....                     | 7                           | 17    | 11         | 3      | N. J. Dept. Conservation.   |
| Riverton.....                               | Burlington..... | .....           | .....                   | 36.1                         | .....                     | 71      | 25    | 10     | 6                        | 32                   | 2.12  | .....                     | 0.82                  | T.                        | 8                           | 16    | 12         | 3      | Japanese Bettle Laboratory. |
| Runyon.....                                 | Middlesex.....  | 18              | 2                       | 35.4*                        | .....                     | 71      | 25    | 2      | 6                        | 48                   | 2.17  | .....                     | 0.81                  | .....                     | 7                           | 20    | 8          | 3      | N. J. Dept. Conservation.   |
| Trenton.....                                | Mercer.....     | 190             | 54                      | 36.0                         | -3.1                      | 67      | 25    | 13     | 6                        | 28                   | 2.22  | -1.82                     | 1.26                  | 0.7                       | 8                           | 14    | 9          | 8      | U. S. Weather Bureau.       |
| Tuckerton.....                              | Ocean.....      | 23              | 33                      | .....                        | .....                     | 79      | 25    | 9      | 6                        | .....                | 2.68  | -1.57                     | 1.05                  | .....                     | 8                           | 23    | 5          | 3      | Mrs. Sophie M. Austin       |
| Vineland.....                               | Cumberland..... | 109             | 57                      | 38.9                         | -1.6                      | 78      | 25    | 13     | 6                        | 34                   | 1.58  | -2.38                     | 0.60                  | T.                        | 7                           | 16    | 11         | 4      | W. C. Himes                 |
| Philadelphia, Pa.....                       | .....           | 117             | 55                      | 39.0                         | -1.8                      | 71      | 25    | 16     | 5                        | 25                   | 1.96  | -1.49                     | 1.09                  | 0.1                       | 8                           | 13    | 12         | 6      | U. S. Weather Bureau.       |
| Means and extremes.....                     | .....           | .....           | .....                   | 36.5                         | -3.7                      | 79      | 25    | 2      | 6                        | 48                   | 2.18  | -1.69                     | 1.26                  | 0.2                       | 8                           | 17    | 9          | 5      | nw.                         |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |                          |                      |       |                           |                       |                           |                             |       |            |        |                             |
| Asbury Park.....                            | Monmouth.....   | 22              | 37                      | 35.6*                        | -3.4                      | 74      | 25    | 9      | 5                        | 35                   | 2.23  | -2.00                     | 0.71                  | T.                        | 7                           | 20    | 7          | 4      | Information Bureau.         |
| Atlantic City.....                          | Atlantic.....   | 16              | 53                      | 36.8                         | -1.8                      | 68      | 25    | 16     | 6                        | 26                   | 2.53  | -1.20                     | 0.85                  | T.                        | 8                           | 14    | 12         | 5      | U. S. Weather Bureau.       |
| Cape May.....                               | Cape May.....   | 17              | 42                      | 38.8                         | -2.0                      | 71      | 25    | 14     | 6                        | 35                   | 1.52  | -2.21                     | 0.57                  | T.                        | 7                           | 14    | 10         | 7      | U. S. Weather Bureau.       |
| Sandy Hook.....                             | Monmouth.....   | 22              | 28                      | 35.4                         | -1.6                      | 67      | 25    | 16     | 5                        | 26                   | 1.96  | -2.28                     | 0.66                  | T.                        | 7                           | 14    | 10         | 7      | U. S. Weather Bureau.       |
| Means and extremes.....                     | .....           | .....           | .....                   | 36.6                         | -2.2                      | 74      | 25    | 9      | 5                        | 35                   | 2.06  | -1.92                     | 0.85                  | T.                        | 7                           | 16    | 10         | 5      | nw.                         |
| For the State.....                          | .....           | .....           | .....                   | 35.1                         | -3.5                      | 79      | 25    | 0      | 6                        | 48                   | 2.25  | -1.67                     | 1.95                  | 0.4                       | 7                           | 16    | 9          | 6      | nw.                         |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Ridgefield is Morsemere



## Daily Precipitation for March, 1926

| Stations                                   | Drainage Basin  | Day of month |     |     |   |   |   |        |     |   |    |     |     |    |    |    |    |    |    |    |    |     |     |       |     |     |     |     |     |     |     |      | Total |      |      |      |
|--------------------------------------------|-----------------|--------------|-----|-----|---|---|---|--------|-----|---|----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|-------|------|------|------|
|                                            |                 | 1            | 2   | 3   | 4 | 5 | 6 | 7      | 8   | 9 | 10 | 11  | 12  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21  | 22  | 23    | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |   |   |   |        |     |   |    |     |     |    |    |    |    |    |    |    |    |     |     |       |     |     |     |     |     |     |     |      |       |      |      |      |
| Belvidere.....                             | Delaware.....   | .20          |     |     |   |   |   | .75    | .30 |   |    |     |     |    |    |    |    |    |    |    |    | .09 |     |       |     |     | .15 |     |     |     |     | .24  | .18   | .25  | 1.91 |      |
| Charlotteburg.....                         | Passaic.....    | .19          |     |     |   |   |   | .97    |     |   |    |     |     |    |    |    |    |    |    |    |    | .21 |     |       |     |     |     |     |     |     |     |      | .41   | 1.93 |      |      |
| Culvers Lake.....                          | Delaware.....   | .15          | T   |     |   |   |   | .57    | .37 |   |    |     |     |    |    |    |    |    |    |    |    | .36 |     |       | .04 |     |     |     |     |     | .08 |      | .18   | 1.86 |      |      |
| Dover.....                                 | Passaic.....    | .11          |     |     |   |   |   | * 1.17 |     |   |    |     | .05 |    |    |    |    |    |    |    |    | .26 |     |       | .12 |     |     |     |     |     | .28 |      | .33   | 2.32 |      |      |
| Layton.....                                | Delaware.....   | .16          |     |     |   |   |   | .68    | .41 |   |    |     |     |    |    |    |    |    |    |    |    | .26 |     |       |     |     |     |     |     |     | .27 |      | .27   | 2.31 |      |      |
| Newton.....                                | Delaware.....   | .08          |     |     |   |   |   | .67    | .36 |   |    |     | .04 |    |    |    |    |    |    |    |    | .44 |     |       | .06 |     |     |     |     |     | .18 |      | .17   | 2.00 |      |      |
| Phillipsburg.....                          | do.....         | .18          | T   | T   |   |   |   | .25    | .52 | T |    |     |     |    |    |    |    |    |    |    |    | .08 |     |       | .21 |     |     |     |     |     | .25 |      | .12   | 1.61 |      |      |
| Sussex.....                                | Hudson.....     | .17          |     |     |   |   |   | .72    | .25 |   |    |     |     | T  |    |    |    |    |    |    |    | .38 |     |       | .07 |     |     |     |     |     | .20 |      | .14   | 1.93 |      |      |
| <i>The Red Sandstone Plain</i>             |                 |              |     |     |   |   |   |        |     |   |    |     |     |    |    |    |    |    |    |    |    |     |     |       |     |     |     |     |     |     |     |      |       |      |      |      |
| Bergen Point**.....                        | Coast.....      | T            | .25 |     |   |   |   | 1.17   | T   |   |    |     | .02 |    |    |    |    |    |    |    |    | .03 |     |       | .15 |     |     |     |     |     |     | .65  | 2.75  |      |      |      |
| Boonton.....                               | Passaic.....    | .15          |     |     |   |   |   | .31    | .82 |   |    |     |     |    |    |    |    |    |    |    |    | .02 | .55 |       | .02 | .05 |     |     |     |     | .01 | .18  |       | .04  | 1.65 |      |
| Chatham II.....                            | do.....         | .16          | T   | T   |   |   |   | .39    | .86 |   |    |     |     |    |    |    |    |    |    |    |    | T   | .06 |       |     |     |     |     |     |     |     | .38  |       | .68  | 2.53 |      |
| Elizabeth.....                             | Coast.....      | .19          | T   |     |   |   |   | * 1.27 |     |   |    |     | .02 |    |    |    |    |    |    |    |    | .03 |     | .12   |     |     |     |     |     |     | .28 |      | .38   | 2.29 |      |      |
| Flemington.....                            | Raritan.....    | .10          |     |     |   |   |   | 1.06   | .21 |   |    |     |     |    |    |    |    |    |    |    |    | .03 |     | .19   |     |     |     |     |     |     |     | .27  |       | .27  | 2.27 |      |
| Highwood.....                              | Hackensack..... | .27          | T   |     |   |   |   | 1.10   | .23 | T |    |     |     |    |    |    |    |    |    |    |    | T   | .19 | T     | T   | .11 |     |     |     |     |     | .36  |       | .65  | 3.14 |      |
| Jersey City.....                           | Coast.....      | .22          | T   |     |   |   |   | .40    | .89 |   |    |     | .05 |    |    |    |    |    |    |    |    | T   | .02 |       | .09 |     |     |     |     |     |     | .44  |       | .62  | 2.73 |      |
| Lambertville.....                          | Delaware.....   | .09          |     |     |   |   |   | .83    | .17 |   |    |     |     |    |    |    |    |    |    |    |    | .02 | .01 |       | .22 |     |     |     |     |     |     | .24  |       | .65  | 2.44 |      |
| Little Falls.....                          | Passaic.....    | .16          |     |     |   |   |   | .63    | .55 |   |    |     |     |    |    |    |    |    |    |    |    | T   | T   | T     | .01 | .08 |     |     |     |     |     | .04  | .32   |      | .10  | 1.97 |
| New Brunswick.....                         | Raritan.....    | .06          |     |     |   |   |   | .93    | .23 | T |    |     |     |    |    |    |    |    |    |    |    | .01 | T   |       | .12 |     |     |     |     |     |     | .34  |       | .20  | 1.89 |      |
| New Milford.....                           | Hackensack..... | .28          |     |     |   |   |   | 1.27   |     |   |    |     |     |    |    |    |    |    |    |    |    | .16 |     | .09   |     |     |     |     |     |     |     | .31  |       | .47  | 2.54 |      |
| Paterson.....                              | Passaic.....    | .21          | T   |     |   |   |   | 1.20   | .05 |   |    |     |     |    |    |    |    |    |    |    |    | T   |     | .15   |     |     | .11 |     |     |     |     | .32  |       | .68  | 2.55 |      |
| Plainfield.....                            | Raritan.....    | .17          |     |     |   |   |   | 1.11   | .23 |   |    |     | .01 |    |    |    |    |    |    |    |    | T   |     |       |     |     |     |     |     |     |     | .38  |       | .38  | 2.41 |      |
| Ridgefield.....                            | Hackensack..... | T            | .23 | T   |   |   |   | 1.19   | T   |   |    |     | .06 |    |    |    |    |    |    |    |    | T   | .02 |       | .08 |     |     |     |     |     |     |      | .41   |      | .65  | 2.73 |
| Somerville.....                            | Raritan.....    | .04          |     |     |   |   |   | .98    | .25 |   |    |     |     |    |    |    |    |    |    |    |    | T   |     | .02   |     |     |     |     |     |     |     | .30  |       | .32  | 2.17 |      |
| South Orange.....                          | Rahway.....     | T            | .21 | T   |   |   |   | 1.92   | .03 |   |    |     |     |    |    |    |    |    |    |    |    | .04 |     |       | .06 |     |     |     |     |     |     | .13  |       | .40  | 3.15 |      |
| Verona.....                                | Passaic.....    | .18          |     |     |   |   |   | 1.02   | .12 |   |    |     | .02 |    |    |    |    |    |    |    |    | T   | .03 |       | .20 |     |     |     |     |     |     | .15  |       | .43  | 2.52 |      |
| Woodcliff Lake**.....                      | Hackensack..... | .18          |     |     |   |   |   | 1.09   |     |   |    |     |     |    |    |    |    |    |    |    |    | T   |     | .20   |     | .08 |     |     |     |     |     | .14  |       | .29  | 1.89 |      |
| New York, N. Y.***.....                    | Coast.....      | .02          | .19 | T   |   |   |   | 1.17   | T   |   |    |     | .05 |    |    |    |    |    |    |    |    | T   | .02 |       | .08 |     |     |     |     |     |     | .41  |       | .58  | 2.52 |      |
| <i>The Southern Interior</i>               |                 |              |     |     |   |   |   |        |     |   |    |     |     |    |    |    |    |    |    |    |    |     |     |       |     |     |     |     |     |     |     |      |       |      |      |      |
| Belleplain.....                            | Tuckahoe.....   | .13          |     |     |   |   |   | .54    | .21 | T |    |     |     | T  | T  |    |    |    |    |    |    | .04 |     | .07   | .40 |     | .08 |     |     |     |     | .42  |       | .38  | 2.27 |      |
| Bridgeton.....                             | Coast.....      | T            | .07 |     |   |   |   | .77    | .05 |   |    |     |     | T  | T  |    |    |    |    |    |    |     | T   |       | .09 | .20 |     | .09 |     |     |     | .25  |       | .34  | 1.86 |      |
| Burlington.....                            | Delaware.....   | *            | .07 |     |   |   |   | .70    | .10 |   |    |     |     |    |    |    |    |    |    |    |    |     | .17 |       | .11 |     |     |     |     |     |     | .46  |       | .55  | 2.09 |      |
| Clayton.....                               | Delaware.....   | .10          |     |     |   |   |   | .80    | .10 |   |    |     |     |    |    |    |    |    |    |    |    |     |     | * 1.0 |     | .05 |     | .05 |     |     |     |      | .35   |      | .55  | 1.55 |
| Hammon.....                                | Mullica.....    | .10          |     |     |   |   |   | .80    | .10 |   |    |     |     |    |    |    |    |    |    |    |    |     |     |       |     |     |     |     |     |     |     |      |       | .35  | 1.55 |      |
| Hightstown.....                            | Raritan.....    | .07          | T   |     |   |   |   | .84    | .28 |   |    |     |     |    |    |    |    |    |    |    |    |     | .20 | T     | .11 |     | .42 |     |     |     |     |      | .25   |      | .25  | 2.17 |
| Imlaystown.....                            | Delaware.....   | .10          |     |     |   |   |   | .65    | .33 |   |    |     |     |    |    |    |    |    |    |    |    |     | .20 | .04   |     | .10 |     | .36 |     |     |     |      | .03   |      | 1.81 |      |
| Indian Mills.....                          | Mullica.....    | .18          |     |     |   |   |   | .99    |     |   |    |     |     |    |    |    |    |    |    |    |    |     | .12 | .24   |     | .06 |     | .58 |     |     |     | .46  |       | .62  | 2.63 |      |
| Lakewood.....                              | Metedeconk..... | .08          | T   |     |   |   |   | .86    | .08 |   |    |     |     |    |    |    |    |    |    |    |    |     | T   |       | .16 | .13 |     | .06 |     |     |     |      | .40   |      | .70  | 2.47 |
| Moorestown.....                            | Delaware.....   | .02          |     |     |   |   |   | 1.03   |     |   |    |     |     |    |    |    |    |    |    |    |    |     | .26 | .46   |     | .03 |     | .40 |     |     |     | .40  |       | .53  | 2.68 |      |
| Northfield.....                            | Coast.....      | .06          |     |     |   |   |   | .69    | .21 |   |    |     |     |    |    |    |    |    |    |    |    |     | .03 | .46   |     | .08 |     | .35 |     |     |     | .76  |       | .28  | 2.58 |      |
| Pleasantville.....                         | Coast.....      | .11          |     |     |   |   |   | .53    | .53 | T |    |     |     |    |    |    |    |    |    |    |    |     | .09 | .46   |     |     | .05 |     |     |     |     | .39  | T     | .28  | 2.44 |      |
| Riverton.....                              | Delaware.....   | T            |     |     |   |   |   | .82    | .30 |   |    |     |     |    |    |    |    |    |    |    |    |     | .18 | .05   |     | T   | .07 |     | .15 | .32 |     |      | .26   |      | 2.12 |      |
| Runyon.....                                | Coast.....      | .14          |     |     |   |   |   | .81    | .30 |   |    |     |     |    |    |    |    |    |    |    |    |     | .12 |       | .04 |     | .07 |     |     |     |     | .40  |       | .36  | 2.17 |      |
| Trenton**.....                             | Delaware.....   | T            | .03 | T   |   |   |   | 1.26   | .01 |   |    |     |     |    |    |    |    |    |    |    |    |     | T   |       | .06 | .04 |     | .18 |     |     |     | .37  |       | .27  | 2.22 |      |
| Tuckerton.....                             | Coast.....      | T            | .02 |     |   |   |   | .95    | .10 |   |    |     |     |    |    |    |    |    |    |    |    |     | .21 | .40   |     | .07 |     | .40 |     |     |     | .53  |       | .68  | 2.68 |      |
| Vineland.....                              | Maurice.....    | T            | *   |     |   |   |   | .18    | .05 | T |    |     |     |    |    |    |    |    |    |    |    |     |     | .32   |     | .05 |     | .38 |     |     |     |      | .60   |      | 1.58 |      |
| Phila., Pa.***.....                        | Delaware.....   | T            | .02 | .01 |   |   |   | 1.09   | T   |   |    |     |     |    |    |    |    |    |    |    |    |     | T   | .11   | .09 |     | .07 |     | .28 |     |     |      | .29   |      | .16  | 1.96 |
| <i>The Sea Coast</i>                       |                 |              |     |     |   |   |   |        |     |   |    |     |     |    |    |    |    |    |    |    |    |     |     |       |     |     |     |     |     |     |     |      |       |      |      |      |
| Asbury Park.....                           | Coast.....      | .16          |     |     |   |   |   | .65    | .06 |   |    |     |     |    |    |    |    |    |    |    |    |     | .23 | .02   |     | .04 |     | *   |     |     |     | 1.07 |       | 2.23 |      |      |
| Atlantic City**.....                       | do.....         | .02          | .06 |     |   |   |   | .85    |     |   |    | .01 |     |    |    |    |    |    |    |    |    |     | .59 |       | .01 |     | T   | .35 |     |     |     | .64  |       | 2.53 |      |      |
| Cape May City.....                         | do.....         | .06          |     |     |   |   |   | .57    |     |   |    | .07 | .01 |    |    |    |    |    |    |    |    |     | .11 |       |     |     |     |     |     |     |     | .34  |       | 1.52 |      |      |
| Sandy Hook***.....                         | do.....         | .01          | .11 | T   |   |   |   | .66    | T   |   |    |     |     |    |    |    |    |    |    |    |    |     | .15 |       | .09 |     | .38 |     |     |     |     | .56  |       | 1.96 |      |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        | Wind |                 |                |           | Moisture |                                        |                                           | Sun-<br>shine |                                         |                                    |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------|----------------------------------------|-------------------------------------------|---------------|-----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |          | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon |               | Relative humidity,<br>per cent at 5 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date     |                                        |                                           |               |                                         |                                    |
|                       |              |         |      |        |      |                 |                |           |          |                                        |                                           |               |                                         |                                    |
| Atlantic City.....    | 29.97        | 30.62   | 6    | 29.25  | 31   | 19.5            | 68             | e.        | 31       | 74                                     | 66                                        | 66            | 68                                      |                                    |
| New York, N. Y.....   | 29.95        | 30.61   | 6    | 29.33  | 31   | 20.2            | 55             | nw.       | 24       | 63                                     | 50                                        | 57            | 69                                      |                                    |
| Philadelphia, Pa..... | 29.96        | 30.60   | 6    | 29.33  | 31   | 11.9            | 36             | e.        | 31       | 67                                     | 59                                        | 55            | 72                                      |                                    |
| Ridgefield.....       | 29.95        | 30.60   | 6    | 29.32  | 31   |                 |                |           |          |                                        |                                           |               | 81                                      |                                    |
| Sandy Hook.....       | 29.94        | 30.62   | 6    | 29.30  | 31   | 18.7            | 48             | ne.       | 31       | 67                                     | 55                                        | 65            | 68                                      |                                    |
| Trenton.....          | 29.96        | 30.63   | 6    | 29.29  | 31   | 13.5            | 40             | e.        | 31       | 70                                     | 53                                        | 59            | 66                                      |                                    |
| Verona.....           | 29.95        | 30.63   | 6    | 29.28  | 24   | 7.2             | 27             | w.        | 25       |                                        |                                           |               | 60                                      |                                    |



## Daily Temperatures for March, 1926

| Stations                             | 1          | 2  | 3  | 4  | 5  | 6  | 7    | 8   | 9  | 10 | 11  | 12  | 13 | 14 | 15  | 16  | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25  | 26  | 27  | 28 | 29  | 30  | 31 | Mean |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------|------------|----|----|----|----|----|------|-----|----|----|-----|-----|----|----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|----|-----|-----|----|------|-------------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| The Highlands and Kittatinny Valley. |            |    |    |    |    |    |      |     |    |    |     |     |    |    |     |     |    |    |    |    |    |    |    |    |     |     |     |    |     |     |    |      |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Belvidere.....                       | Maximum... | 51 | 48 | 31 | 33 | 31 | 41   | 39  | 39 | 39 | 41  | 39  | 37 | 35 | 36  | 39  | 37 | 42 | 53 | 55 | 51 | 57 | 62 | 50 | 57  | 67  | 53  | 50 | 40  | 50  | 62 | 52   | 45.7              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 25 | 30 | 19 | 17 | 10 | 8    | 25  | 28 | 21 | 17  | 21  | 17 | 15 | 12  | 21  | 18 | 18 | 23 | 26 | 35 | 28 | 23 | 38 | 38  | 30  | 33  | 26 | 24  | 21  | 26 | 32   | 23.4              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Charlotteburg.....                   | Maximum... | 48 | 46 | 32 | 27 | 21 | 34   | 44  | 45 | 32 | 39  | 35  | 34 | 32 | 32  | 38  | 36 | 35 | 40 | 46 | 43 | 55 | 59 | 48 | 52  | 64  | 50  | 41 | 38  | 48  | 55 | 41   | 41.6              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 29 | 30 | 18 | 14 | 7  | 5    | ... | 24 | 19 | 17  | 15  | 13 | 11 | ... | 10  | 11 | 15 | 20 | 21 | 35 | 26 | 16 | 30 | 28  | 26  | 30  | 22 | 24  | 18  | 28 | 29   | 20.4 <sup>b</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dover.....                           | Maximum... | 50 | 42 | 35 | 32 | 25 | 38   | 45  | 41 | 35 | 41  | 37  | 36 | 33 | 32  | 41  | 36 | 39 | 50 | 50 | 54 | 51 | 60 | 53 | 55  | 65  | ... | 46 | ... | 48  | 58 | 49   | 44.0 <sup>b</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 25 | 25 | 18 | 16 | 9  | 7    | 25  | 23 | 20 | 18  | 19  | 16 | 13 | 12  | 15  | 15 | 17 | 29 | 22 | 33 | 29 | 22 | 36 | 36  | 29  | 32  | 25 | 21  | 20  | 27 | 31   | 22.1              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Layton.....                          | Maximum... | 48 | 42 | 31 | 27 | 30 | 36   | 36  | 38 | 32 | 38  | 35  | 34 | 29 | 29  | 37  | 37 | 36 | 45 | 51 | 48 | 52 | 58 | 46 | 52  | 66  | 43  | 43 | 35  | 49  | 55 | 42   | 41.3              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 25 | 31 | 18 | 17 | 14 | 0    | 27  | 25 | 20 | 11  | 15  | 14 | 10 | 16  | 13  | 14 | 20 | 20 | 36 | 21 | 19 | 32 | 38 | 27  | 33  | 21  | 19 | 16  | 26  | 30 | 20.7 |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newton.....                          | Maximum... | 49 | 42 | 30 | 29 | 23 | 35   | 43  | 40 | 34 | 39  | 35  | 33 | 30 | 30  | 37  | 35 | 36 | 44 | 49 | 48 | 48 | 58 | 49 | 52  | 64  | 46  | 45 | 38  | 46  | 57 | 48   | 41.7              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 27 | 28 | 19 | 15 | 8  | 5    | 26  | 19 | 18 | 16  | 19  | 15 | 13 | 16  | 20  | 18 | 16 | 22 | 22 | 34 | 28 | 25 | 37 | 34  | 30  | 32  | 20 | 19  | 20  | 30 | 22.0 |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phillipsburg.....                    | Maximum... | 51 | 39 | 28 | 28 | 25 | 44   | 40  | 31 | 38 | 41  | 36  | 38 | 35 | 33  | ... | 36 | 37 | 50 | 49 | 53 | 53 | 57 | 48 | 52  | 67  | 51  | 47 | 45  | 46  | 58 | 46   | 43.4 <sup>a</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 28 | 21 | 20 | 14 | 11 | 12   | 13  | 23 | 21 | 22  | 20  | 18 | 15 | ... | 18  | 20 | 21 | 26 | 28 | 47 | 49 | 60 | 47 | ... | 65  | ... | 23 | 21  | 40  | 50 | 26   | 24.3 <sup>a</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sussex.....                          | Maximum... | 51 | 44 | 32 | 29 | 25 | 38   | 40  | 39 | 33 | 39  | ... | 34 | 30 | 30  | 38  | 37 | 37 | 46 | 50 | 47 | 49 | 60 | 47 | ... | 65  | ... | 23 | 21  | 40  | 50 | 26   | 24.3 <sup>a</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 25 | 31 | 18 | 17 | 9  | 4    | 26  | 27 | 20 | ... | 14  | 12 | 14 | 12  | 15  | 15 | 16 | 21 | 20 | 34 | 25 | 20 | 34 | ... | ... | ... | 23 | 21  | 40  | 50 | 26   | 24.3 <sup>a</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The Red Sandstone Plain.             |            |    |    |    |    |    |      |     |    |    |     |     |    |    |     |     |    |    |    |    |    |    |    |    |     |     |     |    |     |     |    |      |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bergen Point.....                    | Maximum... | 54 | 46 | 31 | 31 | 26 | 40   | 49  | 46 | 36 | 42  | 36  | 36 | 32 | 32  | 42  | 41 | 40 | 50 | 45 | 59 | 59 | 64 | 56 | 56  | 66  | 49  | 49 | 40  | ... | 56 | 44   | 45.1 <sup>a</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 32 | 31 | 22 | 22 | 14 | ...  | 29  | 29 | 24 | 24  | 26  | 22 | 19 | 18  | 24  | 24 | 23 | 24 | 30 | 38 | 32 | 29 | 41 | 40  | 38  | 32  | 30 | 26  | 26  | 32 | 33   | 27.8 <sup>a</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Boonton§§.....                       | Maximum... | 50 | 41 | 29 | 32 | 23 | ...  | 44  | 34 | 35 | 41  | 38  | 37 | 34 | 32  | 39  | 37 | 38 | 49 | 48 | 52 | 51 | 59 | 49 | 54  | 64  | 36  | 50 | 46  | 46  | 59 | 40   | 43.1              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 21 | 29 | 19 | 17 | 10 | 5    | 14  | 30 | 20 | 15  | 18  | 18 | 13 | 13  | 15  | 17 | 18 | 19 | 21 | 28 | 30 | 20 | 32 | 36  | 27  | 34  | 26 | 22  | 17  | 25 | 31   | 21.3 <sup>a</sup> |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Elizabeth.....                       | Maximum... | 52 | 48 | 35 | 34 | 31 | 40   | 49  | 48 | 39 | 45  | 38  | 39 | 36 | 34  | 45  | 41 | 41 | 53 | 47 | 61 | 53 | 63 | 56 | 59  | 67  | 66  | 50 | 43  | 49  | 59 | 49   | 47.4              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 28 | 35 | 22 | 19 | 13 | 10   | 28  | 30 | 23 | 20  | 23  | 20 | 16 | 15  | 21  | 22 | 20 | 25 | 26 | 35 | 32 | 24 | 39 | 40  | 33  | 33  | 28 | 24  | 22  | 29 | 33   | 25.4              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flemington.....                      | Maximum... | 52 | 47 | 34 | 36 | 29 | 40   | 42  | 42 | 39 | 43  | 38  | 39 | 37 | 39  | 41  | 42 | 43 | 55 | 53 | 59 | 53 | 63 | 52 | 59  | 68  | 60  | 52 | 44  | 52  | 60 | 50   | 47.2              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 25 | 34 | 21 | 19 | 12 | 9    | 28  | 29 | 22 | 17  | 21  | 20 | 17 | 14  | 19  | 19 | 18 | 21 | 24 | 32 | 32 | 25 | 37 | 40  | 31  | 33  | 28 | 26  | 22  | 27 | 33   | 24.4              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Highwood.....                        | Maximum... | 49 | 43 | 32 | 30 | 25 | 36   | 48  | 42 | 37 | 40  | 37  | 36 | 33 | 33  | 41  | 38 | 39 | 50 | 44 | 54 | 49 | 58 | 50 | 55  | 67  | 47  | 47 | 38  | 48  | 57 | 42   | 43.4              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 29 | 30 | 22 | 20 | 12 | 7    | 28  | 28 | 23 | 20  | 21  | 21 | 16 | 15  | 20  | 19 | 20 | 24 | 22 | 35 | 30 | 22 | 37 | 38  | 30  | 33  | 26 | 23  | 21  | 29 | 33   | 24.3              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jersey City.....                     | Maximum... | 52 | 46 | 31 | 32 | 25 | 37   | 50  | 47 | 37 | 42  | 38  | 38 | 33 | 33  | 41  | 39 | 39 | 51 | 44 | 58 | 50 | 59 | 50 | 55  | 62  | 42  | 48 | 38  | 49  | 55 | 43   | 44.1              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 35 | 31 | 22 | 19 | 13 | 13   | 30  | 29 | 22 | 23  | 26  | 21 | 18 | 16  | 25  | 24 | 21 | 30 | 32 | 35 | 32 | 32 | 39 | 40  | 39  | 32  | 29 | 24  | 24  | 36 | 32   | 27.2              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lambertville.....                    | Maximum... | 50 | 45 | 29 | 30 | 26 | 39   | 47  | 44 | 36 | 41  | 36  | 36 | 32 | 32  | 39  | 38 | 38 | 51 | 51 | 59 | 52 | 61 | 51 | 55  | 67  | 63  | 45 | 39  | 49  | 57 | 43   | 44.2              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 29 | 28 | 19 | 18 | 11 | 8    | 28  | 25 | 21 | 16  | 21  | 17 | 16 | 12  | 19  | 21 | 18 | 24 | 26 | 34 | 31 | 28 | 39 | 40  | 38  | 32  | 28 | 24  | 23  | 30 | 32   | 24.4              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Little Falls§§.....                  | Maximum... | 52 | 38 | 35 | 31 | 25 | 38   | 50  | 34 | 37 | 42  | 38  | 36 | 29 | 31  | 39  | 36 | 37 | 51 | 45 | 55 | 52 | 60 | 55 | 54  | 66  | 42  | 44 | 37  | 47  | 52 | 39   | 42.8              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 26 | 35 | 21 | 19 | 12 | 9    | 20  | 32 | 23 | 22  | 22  | 17 | 16 | 14  | 18  | 18 | 20 | 24 | 23 | 33 | 30 | 23 | 37 | 41  | 30  | 35  | 27 | 23  | 23  | 29 | 32   | 24.4              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Brunswick.....                   | Maximum... | 54 | 49 | 34 | 31 | 30 | 39   | 51  | 48 | 37 | 42  | 39  | 36 | 33 | 32  | 41  | 38 | 39 | 51 | 47 | 58 | 51 | 61 | 59 | 68  | 66  | 47  | 45 | 49  | 56  | 47 | 46.1 |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 27 | 34 | 21 | 19 | 13 | 9    | 27  | 30 | 23 | 21  | 23  | 20 | 17 | 15  | 22  | 20 | 20 | 24 | 26 | 34 | 32 | 31 | 59 | 57  | 55  | 68  | 66 | 47  | 45  | 49 | 56   | 47                | 46.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paterson.....                        | Maximum... | 52 | 44 | 33 | 34 | 28 | 41   | 42  | 41 | 40 | 44  | 38  | 37 | 37 | 37  | 40  | 42 | 52 | 46 | 51 | 54 | 64 | 58 | 58 | 68  | 66  | 47  | 45 | 49  | 56  | 47 | 46.1 |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 29 | 33 | 22 | 20 | 13 | 12   | 28  | 30 | 24 | 22  | 25  | 22 | 18 | 16  | 22  | 24 | 22 | 27 | 27 | 36 | 31 | 64 | 54 | 64  | 58  | 58  | 57 | 51  | 42  | 50 | 61   | 46.0              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plainfield.....                      | Maximum... | 52 | 47 | 33 | 27 | 33 | 37   | 50  | 42 | 37 | 43  | 38  | 40 | 35 | 35  | 42  | 40 | 41 | 52 | 47 | 60 | 52 | 61 | 54 | 64  | 58  | 58  | 41 | 35  | 35  | 28 | 25   | 33                | 26.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 23 | 33 | 21 | 19 | 12 | 7    | 27  | 28 | 22 | 16  | 21  | 19 | 16 | 13  | 18  | 19 | 20 | 23 | 30 | 32 | 22 | 52 | 57 | 67  | 67  | 42  | 55 | 40  | 51  | 59 | 44   | 45.5              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ridgefield.....                      | Maximum... | 51 | 42 | 27 | 32 | 25 | 36   | 48  | 36 | 36 | 41  | 37  | 37 | 35 | 35  | 40  | 39 | 41 | 50 | 45 | 58 | 51 | 57 | 50 | 57  | 67  | 42  | 55 | 40  | 51  | 59 | 44   | 45.5              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 52 | 26 | 21 | 16 | 13 | 10   | 28  | 23 | 21 | 21  | 23  | 20 | 17 | 15  | 23  | 21 | 21 | 28 | 26 | 39 | 29 | 26 | 50 | 57  | 67  | 42  | 55 | 40  | 51  | 59 | 44   | 45.5              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Somerville.....                      | Maximum... | 53 | 48 | 33 | 33 | 29 | 41   | 48  | 43 | 39 | 44  | 38  | 38 | 35 | 35  | 43  | 39 | 41 | 53 | 51 | 58 | 55 | 62 | 53 | 57  | 63  | 62  | 50 | 43  | 51  | 60 | 48   | 46.6              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 27 | 33 | 22 | 20 | 13 | 6    | 27  | 30 | 23 | 17  | 20  | 16 | 14 | 18  | 16  | 19 | 19 | 21 | 33 | 33 | 20 | 37 | 40 | 30  | 34  | 27  | 25 | 18  | 25  | 33 | 23.7 |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| South Orange.....                    | Maximum... | 50 | 42 | 28 | 32 | 24 | 38   | 48  | 40 | 36 | 41  | 37  | 37 | 31 | 32  | 41  | 39 | 39 | 49 | 45 | 58 | 50 | 59 | 55 | 55  | 66  | 42  | 42 | 39  | 48  | 52 | 47   | 43.3              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum... | 29 | 25 | 21 | 17 | 12 | 11   | 28  | 25 | 23 | 23  | 25  | 22 | 16 | 14  | 23  | 25 | 26 | 30 | 32 | 35 | 37 | 32 | 30 | 39  | 38  | 37  | 35 | 29  | 25  | 32 | 33   | 26.1              |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Verona.....                          | Maximum... | 49 | 45 | 29 | 29 | 21 | 36</ |     |    |    |     |     |    |    |     |     |    |    |    |    |    |    |    |    |     |     |     |    |     |     |    |      |                   |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



# CLIMATOLOGICAL DATA.

NEW JERSEY SECTION.  
G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI. APRIL, 1926. No. 4

## GENERAL SUMMARY.

The persistent low temperatures which were a feature of the weather of March, continued throughout the greater portion of April, with a result that the mean temperature of the State, 46.4°, was the lowest April mean on record except that of 1907, when it was 45.2°. March was 3.5° below normal, and April 3.0° below normal, so that the accumulation of deficiency in warmth was very considerable. The low temperatures and deficiency in rainfall in both months contributed to a very late dormancy of vegetation, so that the cold had no injurious effect, other than that of delay to spring growth, and prolonged use of artificial heat. The weather was more than ordinarily advantageous for outside work, and soil moisture decreased very rapidly. Practically the only warm periods during the month were the 9th, 10th, 21st, 22d, 23d and 24th. Freezing occurred on an average of about 6 to 8 days throughout the State, away from the immediate coast, and killing frost was reported on 9 days, the last being on the 27th in the northernmost counties. These frost occurrences were no later than normal. In the general march of increasing warmth there were but few retrograde periods so that agricultural progress was practically uninterrupted. The temperature deficiency was very uniform throughout the State, except that it was just about normal along the extreme southeastern coast. The deficiency in precipitation was also very uniformly distributed. It was doubtless a fortunate combination of the elements that there was no excess of rain with the deficiency of heat, or that there was no excess of heat with the lack of rain.

Storm warnings were displayed along the coast on the 3d, 13th, 15th, 24th, 27th and 28th.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 46.4°, which was 3.0° below normal. The highest temperature was 87° at Pleasantville on the 22d, and the lowest, 14° at Runyon on the 16th. The greatest daily range of temperature was 52° at Layton on the 21st. The highest monthly mean temperature was 50.3° at Vineland, and the lowest, 42.4° at Charlotteburg.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.6°; Red Sandstone Plain, -1.9°; Southern Interior, -1.3°; Sea Coast, -0.5°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 2.05 inches, which was 1.58 inches below normal. The snowfall was a Trace, which was 1.5 inches below normal. The greatest monthly precipitation was 2.97 inches, at Indian Mills, and the least, 1.39 inches at Plainfield. The greatest amount of precipitation in any 24 consecutive hours was 1.16 inches at Burlington on the 24-25th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 8, or 2 less than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -3.17 inches; Red Sandstone Plain, -3.52 inches; Southern Interior, -3.17 inches; Sea Coast, -3.97 inches.

## WIND.

The prevailing wind direction was from the northwest. The

wind movement averaged 15 miles per hour, which was 2 miles above normal. The highest velocity, sustained for 5 consecutive minutes, was 50 miles per hour from the southeast at Atlantic City on the 3d.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than normal; partly cloudy, 10, or 1 more than normal; cloudy, 7, or 2 less than normal. The per cent of possible sunshine was 66, which was 9 per cent above normal.

## MISCELLANEOUS.

The mean stage of the Delaware river at Phillipsburg was 5.9 feet, and the highest 11.5 feet on the 10th. At Trenton the mean stage was 3.4 feet, which was 0.5 foot below normal, the highest stage was 6.2 feet on the 10th.

The mean atmospheric pressure, reduced to sea level, was 29.96 inches, which was 0.04 inch below normal. The highest reading was 30.32 inches at Atlantic City and Sandy Hook on the 10th and 13th, respectively, and the lowest, 29.40 inches at Sandy Hook on the 1st.

Dense fog was reported on the 8th. Solar halos were observed on the 6th, 12th, and 30th, and a lunar halo on the 21st. Thunderstorms occurred on the 3d, 7th, and 14th. The aurora was observed on the 14th, 15th, 16th, and 25th. Killing frosts continued through the month as late as the 27th.

Light to moderately heavy hail fell generally over the State on the 3d but no material damage resulted. In several localities hail remained on the ground more than eighteen hours. Bridgeton also reported light hail with no damage on the 24th.

## COMPARATIVE DATA FOR APRIL

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 48.4        | 88      | 26     | 2.79          | 2.86      | 0.89  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 50.6        | 86      | 27     | 3.40          | 5.48      | 1.86  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 47.3        | 87      | 16     | 2.70          | 3.77      | 0.91  | .....    | .....       | .....         | .....  | .....                  |
| 1888..... | 47.9        | 92      | 22     | 3.28          | 4.68      | 1.89  | .....    | .....       | .....         | .....  | .....                  |
| 1889..... | 51.2        | 83      | 25     | 5.32          | 7.25      | 2.92  | .....    | .....       | .....         | .....  | .....                  |
| 1890..... | 50.4        | 86      | 21     | 2.65          | 4.58      | 1.89  | .....    | .....       | .....         | .....  | .....                  |
| 1891..... | 52.0        | 88      | 20     | 2.19          | 3.80      | 1.39  | .....    | .....       | .....         | .....  | .....                  |
| 1892..... | 49.3        | 87      | 19     | 2.49          | 4.41      | 1.05  | .....    | .....       | .....         | .....  | .....                  |
| 1893..... | 49.2        | 82      | 19     | 5.21          | 7.12      | 2.97  | .....    | .....       | .....         | .....  | .....                  |
| 1894..... | 50.3        | 88      | 10     | 3.09          | 4.86      | 1.71  | .....    | .....       | .....         | .....  | .....                  |
| 1895..... | 49.1        | 89      | 19     | 4.88          | 7.75      | 3.47  | .....    | .....       | .....         | .....  | .....                  |
| 1896..... | 52.4        | 98      | 12     | 1.35          | 2.39      | 0.64  | 3.1      | 13          | 10            | 7      | 7                      |
| 1897..... | 50.4        | 89      | 19     | 3.79          | 6.98      | 2.17  | T.       | 14          | 11            | 5      | 9                      |
| 1898..... | 47.8        | 81      | 13     | 3.74          | 4.94      | 2.17  | 2.9      | 8           | 11            | 11     | 11                     |
| 1899..... | 49.9        | 88      | 18     | 1.73          | 3.25      | 0.48  | T.       | 16          | 10            | 4      | 4                      |
| 1900..... | 50.8        | 82      | 18     | 2.29          | 3.03      | 1.59  | T.       | 14          | 9             | 7      | 6                      |
| 1901..... | 48.3        | 89      | 23     | 6.31          | 10.22     | 3.46  | 0        | 8           | 7             | 15     | 12                     |
| 1902..... | 50.2        | 93      | 20     | 3.62          | 5.99      | 2.45  | 0        | 10          | 11            | 9      | 9                      |
| 1903..... | 50.9        | 92      | 18     | 3.97          | 7.03      | 2.40  | 0        | 13          | 7             | 10     | 9                      |
| 1904..... | 46.7        | 85      | 16     | 3.42          | 4.71      | 2.00  | 0.1      | 9           | 12            | 9      | 10                     |
| 1905..... | 49.9        | 84      | 18     | 2.88          | 4.03      | 1.53  | 0.1      | 12          | 11            | 7      | 10                     |
| 1906..... | 51.2        | 87      | 17     | 3.64          | 6.42      | 1.17  | T.       | 15          | 10            | 5      | 8                      |
| 1907..... | 45.2        | 83      | 19     | 3.78          | 8.67      | 2.06  | 4.8      | 11          | 9             | 7      | 11                     |
| 1908..... | 51.2        | 93      | 13     | 2.72          | 3.86      | 1.42  | T.       | 14          | 11            | 9      | 13                     |
| 1909..... | 50.2        | 88      | 17     | 5.97          | 8.90      | 3.84  | 0.8      | 10          | 11            | 10     | 12                     |
| 1910..... | 53.5        | 88      | 20     | 5.34          | 7.56      | 3.43  | 0        | 9           | 11            | 10     | 12                     |
| 1911..... | 47.4        | 88      | 14     | 4.11          | 5.58      | 2.87  | 2.6      | 10          | 10            | 11     | 14                     |
| 1912..... | 50.4        | 82      | 18     | 3.56          | 6.02      | 1.81  | 0        | 14          | 7             | 9      | 11                     |
| 1913..... | 52.1        | 89      | 19     | 5.78          | 8.53      | 4.14  | T.       | 13          | 10            | 7      | 11                     |
| 1914..... | 48.4        | 89      | 16     | 3.67          | 4.78      | 2.35  | 0        | 13          | 10            | 6      | 9                      |
| 1915..... | 54.4        | 96      | 20     | 2.71          | 4.13      | 1.28  | 11.5     | 14          | 10            | 11     | 13                     |
| 1916..... | 48.2        | 85      | 21     | 3.32          | 6.14      | 0.90  | 4.4      | 10          | 9             | 7      | 9                      |
| 1917..... | 48.8        | 88      | 21     | 2.39          | 3.54      | 1.19  | 4.7      | 15          | 8             | 11     | 12                     |
| 1918..... | 49.8        | 81      | 22     | 4.05          | 5.79      | 2.88  | 2.6      | 11          | 8             | 7      | 10                     |
| 1919..... | 49.3        | 85      | 15     | 3.06          | 4.79      | 2.20  | T.       | 13          | 9             | 9      | 13                     |
| 1920..... | 48.0        | 85      | 13     | 4.50          | 6.06      | 2.90  | T.       | 12          | 6             | 11     | 11                     |
| 1921..... | 55.3        | 87      | 20     | 3.57          | 5.20      | 1.86  | 0.4      | 13          | 7             | 8      | 10                     |
| 1922..... | 51.0        | 89      | 18     | 2.55          | 4.12      | 1.57  | T.       | 15          | 6             | 8      | 9                      |
| 1923..... | 50.0        | 91      | 3      | 3.55          | 6.69      | 2.27  | 0.5      | 16          | 6             | 8      | 11                     |
| 1924..... | 48.0        | 81      | 18     | 6.15          | 9.23      | 4.74  | 6.6      | 15          | 6             | 9      | 9                      |
| 1925..... | 51.4        | 88      | 15     | 2.40          | 3.35      | 1.31  | 0        | 15          | 7             | 8      | 8                      |
| 1926..... | 46.4        | 87      | 14     | 2.05          | 2.97      | 1.39  | T.       | 13          | 10            | 7      | 8                      |



## Climatological Data for April, 1926

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Belvidere.....                       | Warren.....     | 289             | 35                      | 46.2 <sup>b</sup>            | -3.6                      | 78      | 22†   | 22     | 12    | 40                       | 2.28  | -1.38                     | 0.67                 | T.                        | 8                            | 17    | 4          | 9                            | .....     | Miss C. S. Hixson.          |
| Charlotteburg.....                   | Passaic.....    | 719             | 34                      | 42.4 <sup>b</sup>            | -4.4                      | 76      | 22    | 16     | 12†   | 43                       | 2.05  | -2.27                     | 0.83                 | T.                        | 8                            | 5     | 8          | 17                           | w.        | Newark Water Dept.          |
| Culvers Lake†.....                   | Sussex.....     | 848             | 25                      | 44.1                         | -3.3                      | 78      | 22    | 18     | 12    | ....                     | 1.44  | -2.38                     | 0.61                 | T.                        | 8                            | 17    | 6          | 7                            | nw.       | Brice E. Riker.             |
| Dover.....                           | Morris.....     | 600             | 42                      | 44.1                         | -3.3                      | 78      | 22    | 21     | 12    | 38                       | 1.87  | -1.89                     | 0.84                 | T.                        | 7                            | 7     | 16         | 7                            | .....     | William C. Harris.          |
| Layton.....                          | Sussex.....     | 480             | 25                      | 42.6                         | -4.6                      | 80      | 22    | 18     | 16    | 52                       | 1.95  | -1.66                     | 0.57                 | T.                        | 9                            | 13    | 9          | 8                            | sw.       | A. M. Depue.                |
| Newton.....                          | Sussex.....     | 769             | 42                      | 43.4 <sup>a</sup>            | -4.6                      | 75      | 22    | 20     | 12    | 39                       | 2.11  | -1.26                     | 0.60                 | T.                        | 9                            | 12    | 12         | 6                            | nw.       | Irving J. Kern.             |
| Phillipsburg.....                    | Warren.....     | 363             | 43                      | 46.0                         | -3.9                      | 78      | 22†   | 25     | 12    | 37                       | 1.86  | -1.40                     | 0.61                 | 0                         | 9                            | 16    | 5          | 9                            | nw.       | Town Engineer.              |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 43.3 <sup>a</sup>            | -5.3                      | 77      | 22    | 20     | 16    | 47                       | 2.15  | -1.29                     | 0.62                 | T.                        | 9                            | 14    | 5          | 11                           | nw.       | A. J. W. Mowatt.            |
| Means and extremes...                |                 | .....           | .....                   | 44.0                         | -4.2                      | 80      | 22    | 16     | 12†   | 52                       | 1.96  | -1.69                     | 0.84                 | T.                        | 8                            | 13    | 8          | 9                            | nw        |                             |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Bergen Point†.....                   | Hudson.....     | 37              | 29                      | 47.2 <sup>d</sup>            | -2.3                      | 81      | 22    | 26     | 12    | ....                     | 1.72  | -2.67                     | 0.75                 | T.                        | 7                            | 6     | 21         | 3                            | nw.       | William H. Mitchell         |
| Boonton.....                         | Morris.....     | 400             | 36                      | 43.5                         | -5.2                      | 77      | 22    | 19     | 16    | 43                       | 2.08  | -1.91                     | 0.50                 | .....                     | 8                            | 22    | 0          | 8                            | nw.       | John Kline.                 |
| Chatham.....                         | Morris.....     | 185             | 22                      | 47.8                         | -3.0                      | 83      | 22    | 26     | 12†   | 38                       | 1.97  | -1.71                     | 0.75                 | T.                        | 7                            | 13    | 10         | 7                            | nw.       | Paul Molitor, Sr.           |
| Elizabeth.....                       | Union.....      | 45              | 47                      | 47.8                         | -3.0                      | 83      | 22    | 26     | 12†   | 38                       | 1.97  | -1.71                     | 0.75                 | T.                        | 7                            | 13    | 10         | 7                            | nw.       | L. B. Bonnett.              |
| Flemington.....                      | Hunterdon.....  | 140             | 34                      | 47.4                         | -3.0                      | 83      | 22    | 24     | 16    | 41                       | 2.00  | -1.52                     | 0.76                 | T.                        | 8                            | 17    | 9          | 4                            | nw.       | Hiram E. Deats.             |
| Highwood†.....                       | Bergen.....     | 90              | 38                      | 45.6                         | -2.9                      | 82      | 22    | 23     | 16    | 41                       | 2.60  | -0.83                     | 0.91                 | T.                        | 8                            | 10    | 9          | 11                           | nw.       | Charles J. Bates.           |
| Jersey City.....                     | Hudson.....     | 10              | 28                      | 46.5                         | -3.5                      | 81      | 22    | 27     | 12†   | 34                       | 1.89  | -2.27                     | 0.90                 | T.                        | 8                            | 4     | 21         | 5                            | nw.       | S. K. Pearson, Jr.          |
| Lambertville.....                    | Hunterdon.....  | 370             | 39                      | 45.8                         | -4.9                      | 79      | 22    | 23     | 12    | 35                       | 1.65  | -1.93                     | 0.47                 | T.                        | 8                            | 14    | 7          | 9                            | w.        | Wm. J. Lauderdale.          |
| Little Falls.....                    | Passaic.....    | 180             | 23                      | 44.4                         | -5.5                      | 85      | 22    | 24     | 12†   | 39                       | 2.71  | -1.41                     | 0.60                 | 0                         | 9                            | 12    | 14         | 4                            | nw.       | Passaic Consol. Water Co    |
| New Brunswick.....                   | Middlesex.....  | 110             | 73                      | 46.7 <sup>b</sup>            | -2.9                      | 81      | 22    | 25     | 16†   | 37                       | 1.79  | -1.95                     | 0.65                 | T.                        | 7                            | 11    | 11         | 8                            | n.        | N. J. Experiment Station.   |
| New Milford†.....                    | Bergen.....     | 9               | 8                       | 47.6                         | -2.9                      | 82      | 22    | 25     | 12    | 39                       | 1.94  | -1.71                     | 0.53                 | 0                         | 7                            | 19    | 3          | 8                            | nw.       | Hackensack Water Co         |
| Paterson.....                        | Passaic.....    | 80              | 55                      | 47.6                         | -2.9                      | 82      | 22    | 25     | 12    | 39                       | 1.85  | -1.71                     | 0.53                 | 0                         | 7                            | 19    | 3          | 8                            | nw.       | Marion T. Probert.          |
| Plainfield.....                      | Union.....      | 120             | 33                      | 45.0 <sup>a</sup>            | -4.6                      | 82      | 22    | 21     | 16    | 39                       | 1.39  | -2.51                     | 0.50                 | T.                        | 8                            | 7     | 17         | 6                            | nw.       | E. D. Pearson.              |
| Ridgefield.....                      | Bergen.....     | 80              | 9                       | 45.8                         | .....                     | 82      | 22    | 25     | 12    | 36                       | 1.83  | .....                     | 0.84                 | T.                        | 7                            | 11    | 13         | 6                            | nw.       | George P. Kirsten.          |
| Somerville.....                      | Somerset.....   | 70              | 43                      | 46.7 <sup>b</sup>            | -2.8                      | 84      | 22    | 21     | 16    | 44                       | 1.78  | -1.71                     | 0.51                 | 0                         | 7                            | 20    | 8          | 2                            | w.        | H. B. TenEyck.              |
| South Orange.....                    | Essex.....      | 200             | 56                      | 45.4 <sup>c</sup>            | -3.1                      | 81      | 22    | 26     | 12    | 37                       | 2.17  | .....                     | 0.67                 | T.                        | 9                            | 7     | 12         | 11                           | nw.       | William H. Meeder.          |
| Verona.....                          | Essex.....      | 490             | .....                   | 44.8                         | .....                     | 78      | 22    | 23     | 12    | 34                       | 2.17  | .....                     | 0.54                 | 0                         | 6                            | 7     | 12         | 11                           | w.        | Luther Davis.               |
| Woodcliff Lake†.....                 | Bergen.....     | 100             | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.97  | .....                     | 0.61                 | .....                     | 6                            | ..... | .....      | .....                        | .....     | Hackensack Water Co.        |
| New York, N. Y.....                  |                 | 365             | 56                      | 46.0                         | -3.4                      | 79      | 22    | 27     | 20    | 32                       | 1.76  | -1.54                     | 0.84                 | T.                        | 8                            | 4     | 18         | 8                            | nw.       | U. S. Weather Bureau.       |
| Means and extremes...                |                 | .....           | .....                   | 46.0                         | -3.6                      | 85      | 22    | 19     | 16    | 44                       | 1.96  | -1.84                     | 0.91                 | T.                        | 7                            | 12    | 11         | 7                            | nw.       |                             |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Belleplain.....                      | Cape May.....   | 30              | 32                      | 47.6 <sup>b</sup>            | -3.0                      | 85      | 22    | 19     | 16    | 43                       | 2.17  | -1.48                     | 0.78                 | T.                        | 10                           | ..... | .....      | .....                        | .....     | Thomas J. Durell.           |
| Bridgeton.....                       | Cumberland..... | 90              | 45                      | 49.2                         | -3.5                      | 84      | 22    | 25     | 16    | 38                       | 1.83  | -1.69                     | 0.77                 | 0                         | 8                            | 23    | 4          | 3                            | nw.       | Paul T. Kornman.            |
| Burlington.....                      | Burlington..... | 12              | 34                      | 49.3                         | -2.5                      | 81      | 22    | 25     | 16    | 38                       | 2.49  | -1.21                     | 1.16                 | 0                         | 8                            | 14    | 9          | 7                            | sw.       | Public Service Power Co.    |
| Clayton.....                         | Gloucester..... | 130             | 30                      | 48.8 <sup>a</sup>            | -2.4                      | 85      | 22    | 23     | 18    | 35                       | 2.80  | -0.68                     | 0.90                 | T.                        | 7                            | 9     | 18         | 3                            | nw.       | John G. Reutter.            |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | 47.2                         | .....                     | 83      | 22    | 22     | 16    | 41                       | 2.08  | -1.83                     | 0.89                 | T.                        | 9                            | 17    | 10         | 3                            | w.        | Harvey M. Grover.           |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 47.2 <sup>b</sup>            | -3.3                      | 83      | 22    | 22     | 16    | 41                       | 2.08  | -1.83                     | 0.89                 | T.                        | 9                            | 17    | 10         | 3                            | w.        | Frank M. Lawrence.          |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 47.2                         | .....                     | 83      | 22    | 22     | 16    | 41                       | 2.08  | -1.83                     | 0.89                 | T.                        | 9                            | 17    | 10         | 3                            | w.        | James M. Armstrong.         |
| Indian Mills†.....                   | Burlington..... | 76              | 37                      | 48.4                         | -1.9                      | 85      | 22    | 20     | 16    | 44                       | 2.97  | -0.46                     | 0.95                 | 0                         | 6                            | 12    | 8          | 10                           | nw.       |                             |
| Lakewood.....                        | Ocean.....      | 54              | 22                      | 46.8                         | -2.6                      | 84      | 22    | 20     | 16    | 43                       | 2.34  | -1.33                     | 0.95                 | T.                        | 8                            | 11    | 7          | 12                           | nw        | R. W. Holman.               |
| Moorestown.....                      | Burlington..... | 75              | 63                      | 48.6 <sup>a</sup>            | -1.8                      | 84      | 22    | 25     | 16    | 36                       | 1.98  | -1.31                     | 0.92                 | T.                        | 5                            | 16    | 9          | 5                            | .....     | John B. Warrick.            |
| Northfield†.....                     | Atlantic.....   | 25              | 19                      | 46.6                         | .....                     | 87      | 22    | 19     | 16    | 40                       | 2.24  | -1.11                     | 0.75                 | 0                         | 8                            | 15    | 12         | 3                            | nw.       | William L. Flick.           |
| Pleasantville†.....                  | Atlantic.....   | 26              | 28                      | 46.6                         | .....                     | 87      | 22    | 19     | 16    | 40                       | 2.24  | -1.11                     | 0.75                 | 0                         | 8                            | 15    | 12         | 3                            | nw.       | N. J. Dept. Conservation.   |
| Riverton.....                        | Burlington..... | .....           | .....                   | 47.2                         | .....                     | 83      | 22    | 27     | 12†   | 34                       | 2.12  | .....                     | 1.03                 | 0                         | 6                            | 17    | 8          | 5                            | .....     | Japanese Beetle Laboratory. |
| Runyon†.....                         | Middlesex.....  | 18              | 2                       | 46.4 <sup>a</sup>            | .....                     | 84      | 22    | 14     | 16    | 50                       | 2.02  | .....                     | 0.85                 | 0                         | 7                            | 18    | 9          | 3                            | w.        | N. J. Dept. Conservation.   |
| Trenton.....                         | Mercer.....     | 190             | 54                      | 47.2                         | -2.6                      | 80      | 22    | 26     | 12    | 33                       | 2.01  | -1.28                     | 0.93                 | T.                        | 9                            | 6     | 11         | 13                           | nw.       | U. S. Weather Bureau.       |
| Tuckerton.....                       | Ocean.....      | 23              | 33                      | 47.2                         | -2.6                      | 86      | 22    | 23     | 16    | .....                    | 2.17  | -1.57                     | 0.82                 | T.                        | 7                            | 17    | 12         | 1                            | w.        | Mrs. Sophie M. Austin       |
| Vineyard.....                        | Cumberland..... | 109             | 57                      | 50.3 <sup>a</sup>            | -0.7                      | 85      | 22    | 26     | 20    | 37                       | 2.36  | -1.04                     | 1.05                 | T.                        | 7                            | 14    | 10         | 6                            | sw.       | H. C. Himes                 |
| Philadelphia, Pa.....                |                 | 117             | 55                      | 50.4                         | -1.7                      | 83      | 22    | 29     | 12    | 31                       | 1.81  | -1.10                     | 0.80                 | T.                        | 8                            | 8     | 10         | 12                           | nw.       | U. S. Weather Bureau.       |
| Means and extremes...                |                 | .....           | .....                   | 48.0                         | -2.4                      | 87      | 22    | 14     | 16    | 50                       | 2.21  | -1.30                     | 1.16                 | T.                        | 7                            | 14    | 10         | 6                            | nw.       |                             |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Asbury Park.....                     | Monmouth.....   | 22              | 37                      | 45.4 <sup>a</sup>            | -3.1                      | 83      | 22    | .....  | ..... | .....                    | 2.17  | -1.52                     | 0.87                 | T.                        | 7                            | 16    | 12         | 2                            | nw.       | Information Bureau.         |
| Atlantic City.....                   | Atlantic.....   | 16              | 53                      | 47.6                         | -0.2                      | 81      | 22    | 28     | 20    | 28                       | 1.47  | -1.52                     | 0.54                 | 0                         | 9                            | 10    | 14         | 6                            | w.        | U. S. Weather Bureau.       |
| Cape May City.....                   | Cape May.....   | 17              | 42                      | 50.1                         | +1.7                      | 85      | 22    | 32     | 20    | 31                       | 2.50  | -0.49                     | 0.57                 | 0                         | 9                            | 11    | 12         | 7                            | nw.       | U. S. Weather Bureau.       |
| Sandy Hook.....                      | Monmouth.....   | 22              | 28                      | 45.8                         | -1.2                      | 74      | 22    | 29     | 12    | 26                       | 1.68  | -2.28                     | 0.72                 | T.                        | 8                            | 7     | 14         | 9                            | nw.       | U. S. Weather Bureau.       |
| Means and extremes...                |                 | .....           | .....                   | 47.2                         | -0.7                      | 85      | 22    | 28     | 20    | 31                       | 1.96  | -1.45                     | 0.87                 | T.                        | 8                            | 11    | 13         | 6                            | nw.       |                             |
| For the State.....                   |                 | .....           | .....                   | 46.4                         | -3.0                      | 87      | 22    | 14     | 16    | 52                       | 2.05  | -1.58                     | 1.16                 | T.                        | 8                            | 13    | 10         | 7                            | nw.       |                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



Daily Precipitation for April, 1926

| Stations                                   | Drainage Basin  | Day of month |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      |      |     |     |     |     |      | Total |  |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|-----|-----|----|----|----|-----|-----|-----|------|------|-----|-----|-----|-----|------|-------|--|
|                                            |                 | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12 | 13 | 14  | 15 | 16 | 17  | 18  | 19 | 20 | 21 | 22  | 23  | 24  | 25   | 26   | 27  | 28  | 29  | 30  | 31   |       |  |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      |      |     |     |     |     |      |       |  |
| Belvidere.....                             | Delaware.....   | T.           |     | .29 |     | .05 |     | .11 | .67 | .36 |     |     |    |    |     |    |    |     |     | T. |    |    |     |     | .48 |      |      | .30 |     | .07 |     | 2.28 |       |  |
| Charlotteburg.....                         | Passaic.....    | .10          | .25 |     |     |     |     | .10 | .83 |     |     |     |    |    |     | T. |    |     |     |    |    |    |     |     | .50 |      |      | .15 |     | .12 |     | 2.05 |       |  |
| Culvers Lake.....                          | Delaware.....   | T.           |     | .03 | .08 |     |     | .04 | .61 | .10 |     |     |    |    |     |    |    | .01 |     | T. |    |    |     |     | .37 |      |      | .20 |     |     |     | 1.44 |       |  |
| Dover.....                                 | Passaic.....    | T.           | *   | .32 |     |     |     | *   | .84 |     |     |     |    |    |     |    |    | T.  |     | T. |    |    |     |     | .40 |      | .02  | .23 |     | .06 |     | 1.87 |       |  |
| Layton.....                                | Delaware.....   | .03          |     | T.  | .21 |     |     | .18 | .57 | .11 |     |     |    |    |     |    |    | .02 |     |    |    |    | .03 |     | .57 |      |      | .23 |     |     |     | 1.95 |       |  |
| Newton.....                                | Delaware.....   | T.           |     | .05 | .20 | .01 |     | .19 | .60 | .27 |     |     |    |    |     | T. |    | .01 |     | T. |    |    |     | T.  | .56 |      |      | .22 | T.  |     |     | 2.11 |       |  |
| Phillipsburg.....                          | do.....         | .08          |     | .19 |     | T.  |     | .12 | .61 | .06 |     |     |    |    |     |    | T. |     |     |    |    |    | T.  |     | .34 | .14  |      | .16 |     |     | .16 |      | 1.86  |  |
| Sussex.....                                | Hudson.....     | .02          |     | *   | .31 |     |     | .21 | .62 | .19 |     |     |    |    |     |    |    |     |     |    |    |    |     | .06 |     | .50  |      | .24 |     |     |     | 2.15 |       |  |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      |      |     |     |     |     |      |       |  |
| Bergen Point**.....                        | Coast.....      | T.           |     | .26 |     |     |     | T.  | .12 | .48 | .05 |     |    |    |     |    |    | T.  |     |    |    |    |     |     | .69 | .06  |      | .04 |     | .02 |     | 1.72 |       |  |
| Boonton   .....                            | Passaic.....    | .33          |     |     | .36 |     |     | T.  | .04 | .29 | .50 |     |    |    |     |    |    |     |     |    |    |    |     |     | .45 |      |      | .06 | .05 | T.  |     | 2.08 |       |  |
| Chatham  .....                             | do.....         | *            |     |     | .46 |     | .06 |     | .21 | .76 |     |     |    |    |     |    |    |     |     |    |    |    |     |     | .44 | .03  |      | .14 |     |     |     | 2.10 |       |  |
| Elizabeth.....                             | Coast.....      | .18          |     | .33 |     |     |     | .12 | *   | .54 |     |     |    |    |     |    |    | T.  |     |    |    |    |     |     | .75 |      |      | T.  | .05 |     |     | 1.97 |       |  |
| Flemington.....                            | Raritan.....    | .08          |     |     | .31 |     |     | .09 | .76 | .24 |     |     |    |    |     | T. |    |     |     |    |    |    |     | T.  | .39 |      |      | .11 |     | .02 |     | 2.00 |       |  |
| Highwood.....                              | Hackensack..... |              | .42 |     |     | .03 | T.  | .16 | .49 | .52 |     |     |    |    |     |    | T. | T.  | T.  |    |    |    | T.  |     | T.  | .91  |      | .05 |     | .02 |     | 2.60 |       |  |
| Jersey City.....                           | Coast.....      | T.           |     | .26 |     |     | T.  | T.  | .14 | .40 | .11 |     |    |    |     |    | T. | T.  |     |    |    |    |     | T.  | .90 |      |      | .05 |     | .03 |     | 1.89 |       |  |
| Lambertville.....                          | Delaware.....   | T.           |     | .31 |     |     |     | .05 | .46 | .26 |     |     |    |    | .01 |    |    |     | T.  |    |    |    |     | T.  | .47 |      |      | .06 |     | .03 |     | 1.65 |       |  |
| Little Falls   .....                       | Passaic.....    | .59          |     |     | .55 |     | .02 | .10 | .34 | .44 |     |     |    |    |     |    |    |     |     |    |    |    | T.  |     | .60 | .02  |      | T.  | .05 |     |     | 2.71 |       |  |
| New Brunswick.....                         | Raritan.....    | .14          |     | T.  | .25 |     |     | .04 | .43 | .23 |     |     |    |    |     | T. |    |     |     | T. |    |    |     | T.  | .65 |      |      | .05 |     | T.  |     | 1.79 |       |  |
| New Milford.**.....                        | Hackensack..... |              | .54 |     |     |     |     | .16 | .52 | .01 |     |     |    |    |     |    |    |     |     |    |    |    |     |     | .65 | .06  |      |     |     |     |     | 1.94 |       |  |
| Paterson.....                              | Passaic.....    |              | .12 | .43 |     | T.  |     | .15 | .52 | .04 |     |     |    |    |     |    |    |     |     |    |    |    | T.  | T.  | .53 | T.   |      | .06 | T.  |     |     | 1.85 |       |  |
| Plainfield.....                            | Raritan.....    | T.           |     | .31 |     |     | T.  | .11 | .31 | .08 |     |     |    |    |     |    |    |     |     |    |    |    |     |     | .50 |      |      | .05 |     | .03 |     | 1.39 |       |  |
| Ridgefield.....                            | Hackensack..... | T.           |     | .29 |     | .01 |     | .11 | .57 |     |     |     |    |    |     |    | T. | T.  |     |    |    |    |     | .01 |     | .83  | .01  |     | T.  |     |     | 1.83 |       |  |
| Somerville.....                            | Raritan.....    | .17          |     | .43 |     |     |     | .10 | .51 | .13 |     |     |    |    |     |    |    |     |     |    |    |    |     |     | .40 |      |      | .04 |     | T.  |     | \$   |       |  |
| South Orange.....                          | Rahway.....     | .06          |     | .42 |     |     | T.  | .11 | .60 | .03 |     |     |    |    |     |    |    |     |     |    |    |    |     |     | .52 | .15  |      |     |     |     |     | \$   |       |  |
| Verona.....                                | Passaic.....    |              | .47 |     |     |     |     | .41 | .52 | .14 |     |     |    |    |     |    |    |     | T.  |    |    |    |     | T.  |     | .54  |      | .09 |     |     |     | \$   |       |  |
| Woodcliff Lake**.....                      | Hackensack..... |              | .61 |     |     |     |     | .14 | .59 |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     | .53 | .07  |      |     |     | .03 |     | 1.97 |       |  |
| New York, N. Y.***.....                    | Coast.....      | T.           |     | .25 |     |     | T.  | T.  | .11 | .41 | .07 |     |    |    |     |    |    | T.  | T.  |    |    |    |     |     | T.  | .72  | .12  |     | .05 |     | .03 |      | 1.76  |  |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      |      |     |     |     |     |      |       |  |
| Belleplain.....                            | Tuckahoe.....   | .33          |     |     | .20 |     | .10 | .11 | *   | .50 |     |     |    |    |     |    |    |     |     |    |    |    |     |     | .03 |      | .78  |     | .11 | .01 |     | 2.17 |       |  |
| Bridgeton.....                             | Coast.....      |              |     | T.  | .15 |     | .05 | .03 | .28 | .40 |     | T.  |    |    |     |    |    |     |     |    |    |    |     |     | .03 |      | .77  |     | .12 |     |     | 1.83 |       |  |
| Burlington.....                            | Delaware.....   | .15          |     |     | .16 |     |     | .02 | .40 | .50 |     |     |    |    |     |    |    | T.  |     |    |    |    |     |     |     | 1.16 |      |     | .03 | .07 |     | 2.49 |       |  |
| Clayton.....                               | Delaware.....   | .10          |     | T.  | .35 |     | T.  | .10 | .35 | .85 |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     | .90  |      | .15 |     |     |     | 2.80 |       |  |
| Hammononton.....                           | Mullica.....    |              |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      |      |     |     |     |     | 2.08 |       |  |
| Hightstown.....                            | Raritan.....    | .11          |     | T.  | .22 |     |     | .01 | .43 | .30 |     |     |    |    |     |    | T. |     |     |    |    |    |     |     |     | .89  |      | .11 |     | .01 |     |      |       |  |
| Imlaystown.....                            | Delaware.....   |              |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      |      |     |     |     |     | 2.97 |       |  |
| Indian Mills.....                          | Mullica.....    |              |     | T.  | .24 |     | T.  | .06 | .64 | .38 |     |     |    |    |     |    |    |     |     |    |    |    |     |     | T.  |      | .95  |     | .20 |     |     |      | 2.34  |  |
| Lakewood.....                              | Metedeconk..... | .05          |     | .35 |     |     |     | .04 | .45 | .30 |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     | .95  |      | .15 | .05 | T.  |     | 1.98 |       |  |
| Moorestown.....                            | Delaware.....   | T.           | .12 |     |     |     |     | .32 | .50 |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     | .92  |      | .12 |     |     |     | 1.59 |       |  |
| Northfield.....                            | Coast.....      |              |     | .36 |     | .04 | .05 | .31 | .03 |     | T.  |     |    |    |     |    |    |     |     |    |    |    |     |     |     | .64  |      | .02 | .14 |     |     | 2.24 |       |  |
| Pleasantville   .....                      | Coast.....      | .55          |     |     | .35 |     |     | .11 | .29 | .03 |     | T.  | T. |    |     |    |    |     |     |    |    |    |     |     |     | T.   | .75  |     |     | .16 |     |      |       |  |
| Riverton   .....                           | Delaware.....   |              |     |     | .35 |     |     |     | .03 | .56 |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     | T.   | 1.03 | .02 |     | .13 | T.  |      | 2.12  |  |
| Runyon.....                                | Coast.....      | .07          |     |     | .24 |     |     | .05 | .45 | .21 |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     | .85  |      | .15 |     |     |     | 2.02 |       |  |
| Trenton***.....                            | Delaware.....   | T.           | .25 |     |     |     | .01 | .57 | .11 |     |     |     |    |    | .01 |    |    | T.  |     |    |    |    |     |     |     | T.   | .88  | .05 | .09 | .09 | .04 |      | 2.01  |  |
| Tuckerton.....                             | Coast.....      | .24          |     |     | .38 |     |     | .10 | .38 | .15 |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      | .82  |     |     | .10 |     |      | 2.17  |  |
| Vineland.....                              | Maurice.....    |              | .01 |     |     |     | T.  |     | .80 | .30 |     | .05 |    |    |     |    |    |     |     |    |    |    |     |     |     |      | 1.05 |     | .07 | .08 |     |      | 2.86  |  |
| Phila., Pa.***.....                        | Delaware.....   | T.           |     | .14 |     |     | T.  | .01 | .74 | .06 |     |     |    |    |     |    | T. |     |     | T. | T. |    |     |     |     | T.   | .76  | .01 |     | .05 | .04 |      | 1.81  |  |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |     |     |     |     |     |     |     |    |    |     |    |    |     |     |    |    |    |     |     |     |      |      |     |     |     |     |      |       |  |
| Asbury Park.....                           | Coast.....      | T.           |     | .41 | .01 |     |     |     | .27 | .42 |     |     |    |    |     |    |    |     | .04 |    |    |    |     |     |     | .03  |      | .87 |     | .15 |     |      | 2.17  |  |
| Atlantic City***.....                      | do.....         |              | .33 |     |     |     | .09 |     | .29 | .02 | .01 |     |    |    |     |    |    | T.  |     |    |    |    |     |     |     | .39  | .15  |     | .11 |     |     | 1.47 |       |  |
| Cape May City.....                         | do.....         |              | .41 | .13 |     |     | .43 | .21 |     | .31 |     | .27 |    |    |     |    |    |     |     |    |    |    |     |     |     | .05  | .57  |     | .12 |     |     | 2.50 |       |  |
| Sandy Hook***.....                         | do.....         | T.           |     | .26 |     |     | T.  | T.  | .04 | .44 | .11 |     |    |    |     |    |    | T.  | T.  |    |    |    |     |     |     | .55  | .17  |     | .10 |     | .01 |      | 1.68  |  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |       | Wind            |                |           |       | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|-------|-----------------|----------------|-----------|-------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date  | Hourly velocity | Highest        |           |       | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |       |                 | Miles per hour | Direction | Date  |                                        |                                           |                                         |               |
| Atlantic City.....    | 29.98        | 30.32   | 10   | 29.46  | 1     | 19.4            | 50             | se.       | 3     | 64                                     | 54                                        | 67                                      | 66            |
| New York, N. Y.....   | 29.95        | 30.30   | 13   | 29.40  | 1     | 21.7            | 62             | nw.       | 1     | 62                                     | 53                                        | 58                                      | 70            |
| Philadelphia, Pa..... | 29.98        | 30.32   | 10   | 29.54  | 1     | 11.1            | 33             | nw.       | 24    | 66                                     | 56                                        | 55                                      | 63            |
| Ridgefield.....       | 29.95        | 30.31   | 13   | 29.39  | 1     | .....           | .....          | .....     | ..... | .....                                  | .....                                     | .....                                   | .....         |
| Sandy Hook.....       | 29.95        | 30.32   | 13   | 29.40  | 1     | 17.9            | 48             | nw        | 1     | 64                                     | 54                                        | 64                                      | 70            |
| Trenton.....          | 29.96        | 30.29   | 10   | 29.41  | 1     | 13.8            | 43             | nw        | 3     | 65                                     | 56                                        | 61                                      | 61            |
| Verona.....           | 29.96        | 30.31   | 13   | .....  | ..... | 8.4             | 27             | w.        | 1     | .....                                  | .....                                     | 58                                      | .....         |



## Daily Temperatures for April, 1926

| Stations                             | 1       | 2  | 3  | 4  | 5     | 6  | 7  | 8  | 9  | 10    | 11    | 12 | 13    | 14 | 15    | 16 | 17    | 18    | 19 | 20 | 21    | 22    | 23    | 24    | 25    | 26 | 27    | 28    | 29                | 30    | 31                | Mean              |  |
|--------------------------------------|---------|----|----|----|-------|----|----|----|----|-------|-------|----|-------|----|-------|----|-------|-------|----|----|-------|-------|-------|-------|-------|----|-------|-------|-------------------|-------|-------------------|-------------------|--|
| The Highlands and Kittatinny Valley. |         |    |    |    |       |    |    |    |    |       |       |    |       |    |       |    |       |       |    |    |       |       |       |       |       |    |       |       |                   |       |                   |                   |  |
| Belvidere.....                       | Maximum | 40 | 49 | 52 | 54    | 58 | 46 | 49 | 48 | 61    | 64    | 57 | 51    | 57 | 63    | 55 | 64    | 54    | 57 | 47 | 53    | 76    | 78    | 75    | 78    | 65 | 58    | 53    | 60                | 65    | 58.2 <sup>a</sup> |                   |  |
|                                      | Minimum | 34 | 31 | 28 | 32    | 30 | 27 | 33 | 39 | 38    | 32    | 39 | 22    | 27 | 30    | 29 | 24    | 35    | 47 | 27 | 25    | 36    | 51    | 54    | 44    | 42 | 27    | 40    | 39                | 42    | 34.2 <sup>b</sup> |                   |  |
| Charlotteburg.....                   | Maximum | 44 | 42 | 44 | 47    | 55 | 48 | 48 | 46 | 55    | ..... | 60 | 46    | 49 | 55    | 40 | 59    | 50    | 47 | 45 | ..... | 73    | 76    | 73    | 71    | 65 | 55    | 52    | 57                | 65    | 54.3 <sup>c</sup> |                   |  |
|                                      | Minimum | 29 | 28 | 25 | 32    | 29 | 24 | 30 | 36 | 36    | 28    | 35 | 16    | 17 | 26    | 24 | 16    | 30    | 28 | 20 | 22    | 34    | 49    | 55    | 38    | 34 | 37    | 20    | 36                | 37    | 30.4              |                   |  |
| Dover.....                           | Maximum | 42 | 46 | 45 | 50    | 55 | 48 | 48 | 45 | 59    | 61    | 58 | 50    | 51 | 51    | 48 | 60    | 49    | 52 | 45 | 49    | 74    | 78    | 73    | 70    | 63 | 54    | 56    | 53                | 59    | 55.2              |                   |  |
|                                      | Minimum | 32 | 31 | 28 | 28    | 32 | 26 | 32 | 38 | 33    | 34    | 21 | 23    | 26 | 27    | 22 | 33    | 28    | 24 | 24 | 24    | 52    | 55    | 40    | 42    | 39 | 26    | 37    | 39                | 44    | 33.0              |                   |  |
| Layton.....                          | Maximum | 41 | 40 | 47 | 48    | 56 | 46 | 45 | 44 | 55    | 62    | 53 | 47    | 55 | 61    | 49 | 59    | 45    | 48 | 42 | 47    | 74    | 78    | 73    | 70    | 63 | 54    | 58    | 52                | 56    | 54.7              |                   |  |
|                                      | Minimum | 33 | 30 | 23 | 33    | 28 | 23 | 33 | 36 | 36    | 28    | 36 | 19    | 20 | 23    | 25 | 18    | 34    | 23 | 19 | 24    | 25    | 46    | 55    | 35    | 39 | 38    | 32    | 38                | 42    | 30.6              |                   |  |
| Newton.....                          | Maximum | 40 | 43 | 46 | 48    | 55 | 45 | 51 | 46 | 56    | 60    | 57 | 46    | 54 | 60    | 55 | 61    | 52    | 49 | 43 | 47    | 74    | 75    | 73    | ..... | 51 | 55    | 56    | 52                | 57    | 54.2 <sup>a</sup> |                   |  |
|                                      | Minimum | 23 | 30 | 27 | 32    | 34 | 25 | 31 | 38 | 37    | 37    | 39 | 20    | 26 | 29    | 25 | 22    | 35    | 25 | 23 | 23    | 37    | 53    | 54    | ..... | 38 | 38    | 28    | 40                | 38    | 42                | 32.7 <sup>a</sup> |  |
| Phillipsburg.....                    | Maximum | 39 | 46 | 50 | 52    | 57 | 45 | 48 | 48 | 58    | 62    | 60 | 47    | 52 | 59    | 46 | 63    | 50    | 58 | 35 | 58    | 73    | 78    | 75    | 78    | 60 | 50    | 55    | 52                | 57    | 54                | 55.8              |  |
|                                      | Minimum | 36 | 34 | 31 | 33    | 32 | 30 | 35 | 42 | 41    | 35    | 34 | 25    | 29 | 32    | 31 | 26    | 38    | 25 | 27 | 27    | 40    | 58    | 55    | 44    | 44 | 41    | 33    | 40                | 42    | 43                | 36.2              |  |
| Sussex.....                          | Maximum | 41 | 46 | 48 | 49    | 56 | 50 | 45 | 44 | 56    | 63    | 57 | 47    | 55 | 62    | 56 | 61    | 56    | 50 | 45 | 48    | 76    | 77    | ..... | 75    | 61 | 55    | 58    | 52                | 58    | 66                | 55.6 <sup>a</sup> |  |
|                                      | Minimum | 34 | 22 | 26 | 34    | 30 | 25 | 33 | 37 | 38    | 29    | 40 | 21    | 22 | 25    | 26 | 20    | 34    | 26 | 21 | 24    | 29    | ..... | 50    | 39    | 40 | 39    | 23    | 32                | 38    | 43                | 31.0 <sup>a</sup> |  |
| The Red Sandstone Plain.             |         |    |    |    |       |    |    |    |    |       |       |    |       |    |       |    |       |       |    |    |       |       |       |       |       |    |       |       |                   |       |                   |                   |  |
| Bergen Point.....                    | Maximum | 46 | 48 | 46 | 50    | 56 | 47 | 50 | 51 | 61    | 65    | 50 | ..... | 52 | ..... | 63 | 54    | 51    | 45 | 49 | 74    | 81    | 74    | 67    | ..... | 53 | ..... | 57    | 65                | ..... | 56.8 <sup>f</sup> |                   |  |
|                                      | Minimum | 36 | 34 | 34 | 35    | 32 | 35 | 35 | 43 | 41    | 42    | 26 | 30    | 34 | 33    | 28 | 40    | 31    | 30 | 29 | 41    | ..... | 57    | 51    | 47    | 43 | 35    | 45    | 42                | 48    | 37.7 <sup>a</sup> |                   |  |
| Boonton§§.....                       | Maximum | 42 | 46 | 48 | 50    | 54 | 45 | 47 | 49 | 59    | 60    | 58 | 47    | 50 | 57    | 45 | 58    | 46    | 52 | 45 | 52    | 73    | 77    | 73    | 70    | 61 | 53    | 55    | 55                | 55    | 55                | 55.0              |  |
|                                      | Minimum | 30 | 31 | 25 | 33    | 27 | 27 | 31 | 32 | 37    | 27    | 42 | 21    | 22 | 23    | 28 | 19    | 35    | 25 | 24 | 25    | 30    | 49    | 51    | 40    | 43 | 41    | 27    | 33                | 39    | 43                | 32.0              |  |
| Elizabeth.....                       | Maximum | 45 | 49 | 47 | 54    | 60 | 57 | 52 | 51 | 63    | 63    | 62 | 49    | 49 | 54    | 50 | 64    | 60    | 55 | 51 | 51    | 76    | 83    | 79    | 73    | 61 | 59    | 58    | .....             | 62    | 71                | 58.9 <sup>a</sup> |  |
|                                      | Minimum | 37 | 34 | 31 | 34    | 32 | 30 | 34 | 37 | 43    | 35    | 41 | 26    | 27 | 30    | 32 | 26    | 11    | 28 | 29 | 26    | 38    | 57    | 56    | 49    | 45 | 42    | 30    | 41                | 40    | 46                | 36.6              |  |
| Flemington.....                      | Maximum | 45 | 51 | 52 | 55    | 59 | 49 | 57 | 54 | 63    | 64    | 64 | 50    | 56 | 61    | 53 | 63    | 56    | 58 | 50 | 53    | 77    | 83    | 76    | 71    | 66 | 62    | 60    | 47                | 62    | 67                | 59.8              |  |
|                                      | Minimum | 34 | 33 | 29 | 33    | 31 | 29 | 34 | 40 | 40    | 36    | 40 | 25    | 26 | 31    | 31 | 24    | 38    | 27 | 26 | 25    | 36    | 56    | 54    | 42    | 43 | 41    | 28    | 40                | 37    | 44                | 35.1              |  |
| Highwood.....                        | Maximum | 41 | 48 | 47 | 51    | 57 | 46 | 45 | 45 | 58    | 61    | 60 | 44    | 51 | 51    | 47 | 61    | 52    | 53 | 45 | 50    | 77    | 82    | 75    | 67    | 63 | 54    | 58    | 60                | 60    | 68                | 56.0              |  |
|                                      | Minimum | 35 | 33 | 28 | 34    | 29 | 30 | 35 | 38 | 42    | 31    | 40 | 24    | 25 | 27    | 33 | 23    | 36    | 28 | 25 | 36    | 52    | 55    | 45    | 44    | 42 | 39    | 40    | 47                | ..... | 53.1              |                   |  |
| Jersey City.....                     | Maximum | 42 | 47 | 46 | 51    | 57 | 46 | 51 | 51 | 60    | 60    | 59 | 46    | 47 | 53    | 47 | ..... | 50    | 51 | 43 | 48    | 74    | 81    | 73    | 66    | 63 | 52    | 55    | 58                | 59    | 68                | 55.3 <sup>a</sup> |  |
|                                      | Minimum | 34 | 33 | 34 | 36    | 30 | 34 | 37 | 42 | 42    | 36    | 27 | 32    | 36 | 30    | 31 | 35    | 32    | 29 | 27 | 40    | 59    | 59    | 47    | 44    | 42 | 37    | 43    | 43                | 47    | .....             | 37.7              |  |
| Lambertville.....                    | Maximum | 41 | 45 | 52 | 52    | 58 | 48 | 53 | 50 | 59    | 60    | 59 | 46    | 51 | 58    | 46 | 61    | 53    | 51 | 44 | 50    | 74    | 79    | 72    | 71    | 62 | 52    | 54    | 57                | 57    | 64                | 56.0              |  |
|                                      | Minimum | 34 | 32 | 30 | 32    | 29 | 33 | 39 | 39 | 37    | 40    | 23 | 25    | 30 | 31    | 26 | 38    | 26    | 26 | 24 | 39    | 56    | 56    | 52    | 44    | 40 | 30    | 40    | 39                | 44    | .....             | 35.5              |  |
| Little Falls§§.....                  | Maximum | 41 | 42 | 43 | 45    | 55 | 45 | 45 | 45 | 60    | 65    | 58 | 44    | 48 | 52    | 46 | 59    | 44    | 48 | 42 | 56    | 73    | 85    | 73    | ..... | 60 | 49    | 54    | 58                | 55    | 66                | 53.7 <sup>a</sup> |  |
|                                      | Minimum | 32 | 32 | 29 | 35    | 31 | 30 | 34 | 39 | 39    | 35    | 44 | 24    | 25 | 27    | 31 | 24    | 40    | 28 | 27 | 26    | 34    | 50    | 56    | 42    | 45 | 42    | 28    | 40                | 41    | 46                | 53.2              |  |
| New Brunswick.....                   | Maximum | 43 | 46 | 47 | 51    | 58 | 49 | 55 | 48 | 59    | 61    | 60 | 48    | 48 | 57    | 50 | 62    | 58    | 52 | 49 | 50    | 75    | 81    | 77    | 71    | 64 | 55    | 56    | 64                | 58    | 67                | 57.3              |  |
|                                      | Minimum | 34 | 33 | 31 | 33    | 32 | 30 | 34 | 39 | 41    | 36    | 42 | 26    | 27 | 31    | 31 | 25    | 39    | 26 | 27 | 25    | 39    | 58    | 55    | 49    | 45 | 41    | 31    | 39                | 39    | 46                | 57.7              |  |
| Paterson.....                        | Maximum | 43 | 50 | 48 | 53    | 57 | 50 | 47 | 46 | 64    | 64    | 61 | 48    | 51 | 55    | 51 | 64    | 55    | 56 | 52 | 53    | 77    | 82    | 77    | 68    | 59 | 51    | 59    | 61                | 60    | 69                | 57.7              |  |
|                                      | Minimum | 37 | 34 | 32 | 35    | 31 | 30 | 35 | 37 | 43    | 38    | 42 | 25    | 29 | 31    | 33 | 28    | 40    | 31 | 31 | 28    | 38    | 54    | 59    | 49    | 46 | 43    | 34    | 43                | 48    | .....             | 37.6              |  |
| Plainfield.....                      | Maximum | 43 | 48 | 47 | 53    | 57 | 47 | 52 | 52 | 62    | 62    | 62 | 49    | 49 | 56    | 47 | ..... | 52    | 49 | 43 | 48    | 75    | 82    | 74    | 69    | 64 | 54    | 58    | 59                | 61    | 68                | 57.6              |  |
|                                      | Minimum | 30 | 32 | 28 | 33    | 28 | 29 | 33 | 34 | 38    | 35    | 32 | 25    | 24 | 28    | 27 | 21    | ..... | 28 | 25 | 25    | 36    | 53    | 54    | 42    | 44 | 41    | 27    | 36                | 40    | 40                | 38.4 <sup>a</sup> |  |
| Ridgefield.....                      | Maximum | 42 | 48 | 45 | 51    | 56 | 45 | 48 | 45 | 60    | 61    | 58 | 45    | 47 | 53    | 48 | 62    | 49    | 54 | 44 | 51    | 75    | 82    | 75    | 64    | 62 | 54    | 57    | 59                | 60    | 67                | 55.7              |  |
|                                      | Minimum | 34 | 33 | 31 | 35    | 30 | 34 | 37 | 41 | 38    | 32    | 25 | 28    | 30 | 30    | 28 | 32    | 29    | 27 | 26 | 39    | 55    | 55    | 48    | 42    | 42 | 37    | 42    | 40                | 48    | .....             | 35.8              |  |
| Somerville.....                      | Maximum | 44 | 48 | 53 | 47    | 60 | 54 | 52 | 53 | 62    | 63    | 61 | 50    | 52 | 58    | 55 | 64    | 57    | 54 | 50 | 50    | 77    | 84    | 79    | 72    | 65 | 55    | 59    | 61                | 60    | 70                | 59.0              |  |
|                                      | Minimum | 35 | 34 | 32 | ..... | 30 | 34 | 41 | 41 | ..... | 35    | 26 | 24    | 38 | 31    | 21 | 35    | 24    | 27 | 26 | 33    | 52    | 51    | 44    | 41    | 42 | 25    | 37    | 36                | 44    | .....             | 34.4 <sup>c</sup> |  |
| South Orange.....                    | Maximum | 44 | 47 | 46 | 51    | 58 | 46 | 51 | 48 | 59    | 61    | 59 | 46    | 48 | 55    | 46 | 61    | 55    | 46 | 48 | 52    | 45    | 48    | 74    | 81    | 75 | 67    | 54    | 56                | ..... | 54.8 <sup>a</sup> |                   |  |
|                                      | Minimum | 35 | 33 | 34 | 34    | 36 | 30 | 35 | 39 | 41    | 39    | 31 | 26    | 30 | 31    | 29 | 34    | 31    | 28 | 27 | 37    | 58    | 57    | 51    | 42    | 40 | 34    | ..... | 36.0 <sup>o</sup> |       |                   |                   |  |
| Verona.....                          | Maximum | 41 | 45 | 44 | 49    | 54 | 44 | 48 | 44 | 57    | 59    | 57 | 43    | 46 | 52    | 45 | 60    | 46    | 50 | 41 | 46    | 73    | 78    | 72    | 67    | 61 | 51    | 54    | 58                | 56    | 66                | 53.6              |  |
|                                      | Minimum | 35 | 32 | 31 | 33    | 34 | 28 | 34 | 37 | 41    | 38    | 39 | 23    | 27 | 28    | 29 | 26    | 35    | 29 | 27 | 25    | 39    | 58    | 57    | 51    | 45 | 40    | 31    | 41                | 46    | .....             | 36.0              |  |
| New York, N. Y.....                  | Maximum | 41 | 46 | 45 | 49    | 56 | 45 | 49 | 50 | 58    | 58    | 58 | 44    | 44 | 51    | 45 | 59    | 48    | 50 |    |       |       |       |       |       |    |       |       |                   |       |                   |                   |  |



UNNJ

U. S. DEPARTMENT OF AGRICULTURE WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI.

MAY, 1926.

No. 5

GENERAL SUMMARY.

The persistence of the cold weather of April appeared to follow well through May, although the deficiency in warmth was much less pronounced. Taking April and May together there were almost twice as many days with subnormal temperature than there were days of normal or greater warmth. In a small area of the southwestern counties May temperatures were slightly above normal. A further significant feature was the continuous subnormal temperature during the last decade, when ordinarily forerunners of summer warmth might have been occasionally expected. In spite of the general feeling that May was a remarkably cool month, it was warmer than the last two Mays, just the same as May in 1923, and warmer than May 1920 and 1917, the latter being the coolest May on record. In 1918, 1919, 1921 and 1922 it was warmer than this year.

Rain was deficient over practically all portions of the State except the eastern shore, where it was slightly above normal. This lack of rain with the low temperatures probably prevented what might otherwise have been very unfavorable weather for agriculture, and especially unfavorable for seed germination. But crop advances were practically normal as to quality, but some two weeks or more late, as to time.

Sunshine exceeded its normal by some 15 percent. of possible, and this, with a deficiency of rain frequency, greatly favored all out-door interests.

No local storms of any remarkable degree of severity occurred. Storm warnings were displayed along the coast on the 16th.

TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 59.1°, which was 1.2° below normal. The highest temperature was 90° at Indian Mills on the 2d, and Little Falls on the 18th, and the lowest, 26° at Layton, Sussex and Runyon on the 5th. The greatest daily range of temperature was 51° at Runyon on the 13th. The highest monthly mean temperature was 63.1° at Vineland, and the lowest, 55.7° at Charlotteburg.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.6°; Red Sandstone Plain, -1.9°; Southern Interior, -1.2°; Sea Coast, -0.4°.

PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 2.58 inches, which was 1.09 inches below normal. The greatest monthly precipitation was 4.52 inches, at Tuckerton, and the least, 1.08 inches at Woodcliff Lake. The greatest amount of precipitation in any 24 consecutive hours was 3.00 inches at Cape May City on the 15-16th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 2 less than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -5.12 inches; Red Sandstone Plain, -4.89 inches; Southern Interior, -3.84 inches; Sea Coast, -3.80 inches.

WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 12 miles per hour, which was 1 mile above normal. The highest velocity, sustained for 5 consecutive

minutes, was 48 miles per hour from the west at Atlantic City on the 1st.

SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, which was 5 more than normal; partly cloudy, 9, or normal; cloudy, 4, or 5 less than normal. The per cent of possible sunshine was 75, which was 15 per cent above normal.

MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.89 inches, which was 0.10 inch below normal. The highest reading was 30.39 inches at Ridgefield and Verona on the 28th, and the lowest, 29.44 inches at Ridgefield on the 9th.

The mean stage of the Delaware river at Phillipsburg was 2.1 feet, and the highest 4.5 feet on the 1st. At Trenton the mean daily stage was 1.4 feet, which was 1.2 feet below normal; they highest stage was 2.7 feet on the 1st.

Dense fog occurred on the 2d and 19th. Thunderstorms were reported on the 3d, 14th to the 23d, inclusive, and 31st. Solar halos were observed on the 3d, 20th, 21st, 29th and 30th; lunar halos on the 26th and 30th. Killing frosts occurred in scattered northern localities as late as the 21st, and freezing temperatures in the cranberry bogs as late as the 29th. Light frost occurred on the 24th in several localities.

Light hail with no damage fell in the central part of the State on the 15th and in the northern part on the 19th.

ERRATA.

October, 1924: Sussex, total precipitation 0.01 inch; departure -3.43; Bridgeton, trace; departure, -3.59.

COMPARATIVE DATA FOR MAY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 57.3        | 90      | 29     | 2.74          | 5.20     | 1.18  | .....       | .....         | .....  | .....                  |
| 1886..... | 58.8        | 87      | 36     | 6.07          | 8.46     | 4.15  | .....       | .....         | .....  | .....                  |
| 1887..... | 58.3        | 94      | 35     | 1.37          | 3.82     | 0.08  | .....       | .....         | .....  | .....                  |
| 1888..... | 58.6        | 90      | 26     | 4.92          | 6.48     | 3.00  | .....       | .....         | .....  | .....                  |
| 1889..... | 62.3        | 94      | 32     | 4.09          | 6.60     | 2.43  | .....       | .....         | .....  | .....                  |
| 1890..... | 60.7        | 87      | 33     | 4.24          | 7.17     | 2.60  | .....       | .....         | .....  | .....                  |
| 1891..... | 59.5        | 93      | 28     | 2.97          | 5.39     | 1.78  | .....       | .....         | .....  | .....                  |
| 1892..... | 60.1        | 90      | 30     | 5.04          | 6.52     | 3.26  | .....       | .....         | .....  | .....                  |
| 1893..... | 59.4        | 95      | 29     | 4.07          | 6.38     | 2.55  | .....       | .....         | .....  | .....                  |
| 1894..... | 61.4        | 93      | 30     | 7.72          | 15.61    | 3.57  | .....       | .....         | .....  | .....                  |
| 1895..... | 60.9        | 102     | 28     | 2.85          | 3.95     | 1.66  | .....       | .....         | .....  | .....                  |
| 1896..... | 65.3        | 98      | 29     | 3.21          | 4.54     | 1.62  | .....       | .....         | .....  | .....                  |
| 1897..... | 60.6        | 87      | 29     | 5.68          | 9.11     | 1.71  | .....       | .....         | .....  | .....                  |
| 1898..... | 58.5        | 93      | 29     | 7.00          | 9.26     | 3.92  | .....       | .....         | .....  | .....                  |
| 1899..... | 61.1        | 94      | 29     | 1.92          | 3.15     | 1.15  | .....       | .....         | .....  | .....                  |
| 1900..... | 60.9        | 98      | 26     | 4.71          | 7.33     | 2.53  | .....       | .....         | .....  | .....                  |
| 1901..... | 58.6        | 90      | 29     | 5.60          | 8.13     | 3.10  | .....       | .....         | .....  | .....                  |
| 1902..... | 60.3        | 95      | 29     | 2.04          | 4.63     | 1.11  | .....       | .....         | .....  | .....                  |
| 1903..... | 62.7        | 98      | 21     | 0.59          | 1.32     | 0.08  | .....       | .....         | .....  | .....                  |
| 1904..... | 62.8        | 97      | 31     | 2.60          | 6.69     | 1.01  | .....       | .....         | .....  | .....                  |
| 1905..... | 61.4        | 89      | 22     | 1.71          | 3.94     | 0.42  | .....       | .....         | .....  | .....                  |
| 1906..... | 61.0        | 94      | 24     | 4.21          | 6.28     | 2.37  | .....       | .....         | .....  | .....                  |
| 1907..... | 55.4        | 91      | 22     | 5.05          | 8.09     | 2.51  | .....       | .....         | .....  | .....                  |
| 1908..... | 61.6        | 95      | 29     | 7.10          | 9.99     | 4.39  | .....       | .....         | .....  | .....                  |
| 1909..... | 60.0        | 91      | 27     | 2.30          | 4.81     | 0.79  | .....       | .....         | .....  | .....                  |
| 1910..... | 60.0        | 94      | 27     | 2.54          | 4.25     | 1.48  | .....       | .....         | .....  | .....                  |
| 1911..... | 64.5        | 99      | 22     | 1.37          | 3.84     | 0.31  | .....       | .....         | .....  | .....                  |
| 1912..... | 62.0        | 92      | 31     | 4.09          | 6.47     | 2.79  | .....       | .....         | .....  | .....                  |
| 1913..... | 60.3        | 94      | 25     | 3.45          | 4.86     | 2.53  | .....       | .....         | .....  | .....                  |
| 1914..... | 63.1        | 98      | 30     | 2.93          | 5.09     | 0.95  | .....       | .....         | .....  | .....                  |
| 1915..... | 58.1        | 88      | 30     | 3.82          | 6.15     | 2.00  | .....       | .....         | .....  | .....                  |
| 1916..... | 61.1        | 90      | 33     | 3.48          | 5.27     | 2.14  | .....       | .....         | .....  | .....                  |
| 1917..... | 54.0        | 90      | 25     | 3.83          | 6.83     | 2.08  | .....       | .....         | .....  | .....                  |
| 1918..... | 64.6        | 93      | 31     | 4.94          | 7.59     | 2.74  | .....       | .....         | .....  | .....                  |
| 1919..... | 60.9        | 95      | 31     | 4.98          | 7.68     | 3.06  | .....       | .....         | .....  | .....                  |
| 1920..... | 57.4        | 89      | 26     | 3.00          | 5.23     | 1.61  | .....       | .....         | .....  | .....                  |
| 1921..... | 60.2        | 96      | 32     | 4.17          | 6.44     | 2.60  | .....       | .....         | .....  | .....                  |
| 1922..... | 63.0        | 90      | 23     | 3.84          | 7.55     | 1.16  | .....       | .....         | .....  | .....                  |
| 1923..... | 59.1        | 90      | 25     | 1.66          | 3.62     | 0.67  | .....       | .....         | .....  | .....                  |
| 1924..... | 56.8        | 87      | 25     | 5.69          | 7.94     | 3.36  | .....       | .....         | .....  | .....                  |
| 1925..... | 57.7        | 99      | 23     | 2.86          | 4.94     | 0.49  | .....       | .....         | .....  | .....                  |
| 1926..... | 59.1        | 90      | 26     | 2.58          | 4.52     | 1.08  | .....       | .....         | .....  | .....                  |



## Climatological Data for May, 1926

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                           |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                    |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Belvidere.....                       | Warren.....     | 289             | 35                      | 60.6                         | -0.1                      | 88      | 2†    | 31     | 5     | 43                       | 1.82  | -2.01                     | 0.54                 | 0                         | 9                            | 21    | 8          | 2                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                   | Passaic.....    | 719             | 34                      | 55.7 <sup>b</sup>            | -1.8                      | 84      | 2     | 27     | 5     | 45                       | 1.77  | -2.43                     | 0.53                 | 0                         | 8                            | 6     | 5          | 20                           | w.        |                                                                                                                           |
| Culvers Lake††.....                  | Sussex.....     | 848             | 25                      | 58.0                         | .....                     | 85      | ..... | 31     | 5     | .....                    | 1.63  | -2.00                     | 0.55                 | 0                         | 9                            | 22    | 7          | 2                            | nw.       |                                                                                                                           |
| Dover.....                           | Morris.....     | 600             | 42                      | 58.0                         | -0.6                      | 85      | 18    | 30     | 5     | 42                       | 1.96  | -1.98                     | 0.95                 | 0                         | 10                           | 8     | 19         | 4                            | .....     |                                                                                                                           |
| Layton.....                          | Sussex.....     | 480             | 25                      | 55.8                         | -2.2                      | 85      | 2     | 26     | 5     | 46                       | 1.12  | -2.13                     | 0.42                 | 0                         | 6                            | 19    | 7          | 5                            | s.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                     |
| Newton.....                          | Sussex.....     | 769             | 42                      | 57.9                         | -1.6                      | 85      | 2     | 30     | 4     | 40                       | 2.11  | -1.82                     | 0.75                 | 0                         | 8                            | 18    | 8          | 5                            | sw.       |                                                                                                                           |
| Phillipsburg.....                    | Warren.....     | 363             | 43                      | 60.2 <sup>b</sup>            | -1.1                      | 88      | 18    | 35     | 5     | 42                       | 2.21  | -1.65                     | 0.86                 | 0                         | 9                            | 17    | 11         | 3                            | .....     |                                                                                                                           |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 57.6 <sup>b</sup>            | -2.3                      | 86      | 2     | 26     | 5     | 46                       | 2.13  | -1.59                     | 0.86                 | 0                         | 8                            | 16    | 8          | 7                            | nw.       |                                                                                                                           |
| Means and extremes.....              |                 |                 |                         | 58.0                         | -1.4                      | 88      | 2†    | 26     | 5     | 46                       | 1.84  | -1.95                     | 0.95                 | 0                         | 8                            | 16    | 9          | 6                            | nw.       |                                                                                                                           |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Bergen Point††.....                  | Hudson.....     | 37              | 29                      | 59.2 <sup>b</sup>            | -1.1                      | 85      | 18    | 40     | 5     | 40                       | 2.28  | -1.68                     | 0.92                 | 0                         | 8                            | 7     | 20         | 4                            | uw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                 |
| Boonton.....                         | Morris.....     | 400             | 36                      | 56.2 <sup>a</sup>            | -3.0                      | 84      | 18    | 28     | 5     | 44                       | 1.92  | -2.14                     | 0.62                 | 0                         | 11                           | 25    | 0          | 6                            | nw.       |                                                                                                                           |
| Chatham.....                         | Morris.....     | 185             | 22                      | 58.0                         | .....                     | 85      | ..... | 31     | 5     | .....                    | 2.38  | -1.12                     | 0.78                 | 0                         | 8                            | 24    | 2          | 5                            | .....     |                                                                                                                           |
| Elizabeth.....                       | Union.....      | 45              | 47                      | 59.8                         | -2.2                      | 88      | 3     | 34     | 5     | 44                       | 2.79  | -1.03                     | 1.76                 | 0                         | 9                            | 16    | 12         | 3                            | se        |                                                                                                                           |
| Flemington.....                      | Hunterdon.....  | 140             | 40                      | 60.2                         | -1.1                      | 86      | 2     | 35     | 5     | 43                       | 3.40  | -0.62                     | 0.91                 | 0                         | 10                           | 19    | 10         | 2                            | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                          |
| Highwood††.....                      | Bergen.....     | 90              | 38                      | 57.2                         | -2.1                      | 84      | 18    | 32     | 5     | 41                       | 2.31  | -1.52                     | 0.66                 | 0                         | 11                           | 19    | 6          | 6                            | nw.       |                                                                                                                           |
| Jersey City.....                     | Hudson.....     | 10              | 28                      | 59.8                         | -1.8                      | 83      | 18    | 39     | 4†    | 30                       | 2.67  | -0.91                     | 0.75                 | 0                         | 10                           | 17    | 12         | 2                            | nw.       |                                                                                                                           |
| Lambertville.....                    | Hunterdon.....  | 370             | 39                      | 59.0 <sup>a</sup>            | -2.6                      | 84      | 2     | 35     | 5     | 40                       | 3.27  | -0.75                     | 1.57                 | 0                         | 9                            | 19    | 7          | 5                            | .....     |                                                                                                                           |
| Little Falls.....                    | Passaic.....    | 180             | 23                      | 58.4                         | -1.3                      | 90      | 18    | 34     | 10    | 42                       | 2.22  | -1.57                     | 0.51                 | 0                         | 10                           | 15    | 12         | 4                            | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Haekensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.      |
| New Brunswick.....                   | Middlesex.....  | 110             | 73                      | 59.8                         | -0.6                      | 86      | 2     | 33     | 5     | 43                       | 2.11  | -1.78                     | 0.87                 | 0                         | 9                            | 19    | 10         | 2                            | n.        |                                                                                                                           |
| New Milford††.....                   | Bergen.....     | 9               | 8                       | 58.0                         | .....                     | 85      | ..... | 31     | 5     | .....                    | 2.49  | .....                     | 0.89                 | 0                         | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Paterson.....                        | Passaic.....    | 80              | 55                      | 61.0                         | -0.5                      | 88      | 18    | 38     | 5     | 39                       | 2.19  | -2.25                     | 0.46                 | 0                         | 10                           | 16    | 5          | 10                           | nw.       |                                                                                                                           |
| Plainfield.....                      | Union.....      | 120             | 38                      | 57.8                         | -2.4                      | 85      | 2     | 34     | 5     | 44                       | 2.62  | -1.30                     | 1.32                 | 0                         | 10                           | 14    | 14         | 3                            | nw.       |                                                                                                                           |
| Ridgefield.....                      | Bergen.....     | 80              | 9                       | 58.2                         | .....                     | 84      | 18    | 35     | 5     | 35                       | 2.35  | .....                     | 1.36                 | 0                         | 11                           | 16    | 12         | 3                            | nw.       | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach.<br>Luther Davis.<br>Haekensack Water Co.                            |
| Somerville.....                      | Somerset.....   | 70              | 43                      | 58.9 <sup>b</sup>            | -1.9                      | 87      | 2     | 30     | 5     | 46                       | 2.68  | -1.17                     | 0.84                 | 0                         | 8                            | 25    | 5          | 1                            | w.        |                                                                                                                           |
| South Orange.....                    | Essex.....      | 200             | 56                      | 57.4                         | .....                     | 82      | 18    | 35     | 5     | 33                       | 2.33  | .....                     | 0.63                 | 0                         | 11                           | 10    | 14         | 7                            | nw.       |                                                                                                                           |
| Verona.....                          | Essex.....      | 490             | .....                   | 57.4                         | .....                     | 82      | 18    | 35     | 5     | 33                       | 2.08  | .....                     | 0.40                 | 0                         | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Woodcliff Lake††.....                | Bergen.....     | 100             | 8                       | 58.0                         | .....                     | 85      | ..... | 31     | 5     | .....                    | 1.08  | .....                     | 0.40                 | 0                         | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| New York, N. Y.....                  |                 | 365             | 56                      | 58.5                         | -2.1                      | 80      | 18    | 39     | 4     | 26                       | 2.45  | -0.73                     | 1.03                 | 0                         | 10                           | 15    | 11         | 5                            | nw.       | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....              |                 |                 |                         | 58.8                         | -1.7                      | 90      | 18    | 28     | 5     | 46                       | 2.42  | -1.37                     | 1.76                 | 0                         | 9                            | 18    | 9          | 4                            | nw.       |                                                                                                                           |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Belleplain.....                      | Cape May.....   | 30              | 32                      | 58.8                         | -2.3                      | 86      | 2†    | 30     | 29    | 44                       | 2.94  | -0.88                     | 1.99                 | 0                         | 9                            | 17    | 9          | 5                            | .....     | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                     |
| Bridgeton.....                       | Cumberland..... | 90              | 45                      | 60.6                         | -3.4                      | 85      | 18    | 35     | 5     | 37                       | 2.78  | -1.06                     | 1.62                 | 0                         | 8                            | 15    | 12         | 4                            | nw.       |                                                                                                                           |
| Burlington.....                      | Burlington..... | 12              | 40                      | 62.2                         | +0.7                      | 88      | 3     | 37     | 5†    | 43                       | 2.12  | -2.09                     | 0.74                 | 0                         | 7                            | 16    | 10         | 5                            | nw.       |                                                                                                                           |
| Clayton.....                         | Gloucester..... | 130             | 30                      | 61.9 <sup>f</sup>            | +0.2                      | 84      | 19    | .....  | ..... | .....                    | 2.10  | -1.23                     | .....                | 0                         | 6                            | 20    | 9          | 2                            | w.        |                                                                                                                           |
| Hammononton.....                     | Atlantic.....   | 103             | 24                      | 59.4 <sup>b</sup>            | -1.9                      | 87      | 2     | 33     | 5†    | 46                       | 2.59  | -1.36                     | 0.82                 | 0                         | 9                            | 21    | 6          | 4                            | w.        | R. E. Montgomery.<br>Harvey M. Grover.<br>Frank M. Lawrence.<br>James M. Armstrong.                                       |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 59.4 <sup>b</sup>            | -1.9                      | 87      | 2     | 33     | 5†    | 46                       | 2.59  | -1.36                     | 0.82                 | 0                         | 9                            | 21    | 6          | 4                            | w.        |                                                                                                                           |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 59.4 <sup>b</sup>            | -1.9                      | 87      | 2     | 33     | 5†    | 46                       | 2.59  | -1.36                     | 0.82                 | 0                         | 9                            | 21    | 6          | 4                            | w.        |                                                                                                                           |
| Indian Mills††.....                  | Burlington..... | 76              | 37                      | 60.2                         | -1.9                      | 90      | 2     | 34     | 6     | 47                       | 2.86  | -0.38                     | 1.35                 | 0                         | 8                            | 14    | 11         | 6                            | sw.       |                                                                                                                           |
| Lakewood.....                        | Ocean.....      | 54              | 22                      | 58.3                         | -1.9                      | 84      | 2†    | 31     | 6     | 44                       | 3.19  | -0.21                     | 1.43                 | 0                         | 7                            | 21    | 5          | 5                            | nw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                       |
| Moorestown.....                      | Burlington..... | 75              | 63                      | 61.4                         | +0.1                      | 87      | 3     | 35     | 5     | 40                       | 2.46  | -1.56                     | 0.90                 | 0                         | 7                            | 20    | 8          | 3                            | sw.       |                                                                                                                           |
| Northfield††.....                    | Atlantic.....   | 25              | 19                      | 57.1                         | .....                     | 86      | 18    | 32     | 6     | 39                       | 3.66  | +0.19                     | 2.85                 | 0                         | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Pleasantville††.....                 | Atlantic.....   | 26              | 28                      | 57.1                         | .....                     | 86      | 18    | 32     | 6     | 39                       | 3.49  | +0.23                     | 2.00                 | 0                         | 7                            | 23    | 7          | 1                            | sw.       |                                                                                                                           |
| Riverton.....                        | Burlington..... | .....           | .....                   | 59.7                         | .....                     | 85      | 2     | 36     | 5     | 41                       | 2.43  | .....                     | 0.75                 | 0                         | 7                            | 21    | 5          | 5                            | .....     | Japanese Beetle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes |
| Runyon††.....                        | Middlesex.....  | 18              | 2                       | 58.0                         | .....                     | 88      | 3     | 26     | 5     | 51                       | 2.67  | .....                     | 0.94                 | 0                         | 9                            | 20    | 9          | 2                            | w.        |                                                                                                                           |
| Trenton.....                         | Mercer.....     | 190             | 54                      | 60.6                         | -0.5                      | 86      | 2     | 37     | 5     | 39                       | 3.00  | -0.52                     | 1.36                 | 0                         | 9                            | 15    | 11         | 5                            | nw.       |                                                                                                                           |
| Tuckerton.....                       | Ocean.....      | 23              | 33                      | 60.8 <sup>b</sup>            | +0.9                      | 86      | 18    | 34     | 5†    | 41                       | 4.52  | +0.78                     | 2.60                 | 0                         | 9                            | 23    | 7          | 1                            | w.        |                                                                                                                           |
| Vineland.....                        | Cumberland..... | 109             | 57                      | 63.1 <sup>a</sup>            | +0.8                      | 89      | 2     | 37     | 5     | 42                       | 3.03  | -0.60                     | 2.02                 | 0                         | 8                            | 21    | 8          | 2                            | nw        |                                                                                                                           |
| Philadelphia, Pa.....                |                 | 117             | 55                      | 63.0                         | +0.1                      | 85      | 2     | 42     | 4     | 34                       | 2.31  | -0.89                     | 0.98                 | 0                         | 10                           | 14    | 11         | 6                            | sw.       | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....              |                 |                 |                         | 60.2                         | -0.8                      | 90      | 2     | 26     | 5     | 51                       | 2.92  | -0.67                     | 2.85                 | 0                         | 8                            | 19    | 8          | 4                            | nw.       |                                                                                                                           |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Asbury Park.....                     | Monmouth.....   | 22              | 37                      | 56.4                         | -2.4                      | 84      | 18    | 30     | 6     | 38                       | 4.12  | +0.54                     | 1.82                 | 0                         | 9                            | 21    | 6          | 4                            | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                            |
| Atlantic City.....                   | Atlantic.....   | 16              | 53                      | 58.6                         | +0.5                      | 82      | 18    | 40     | 5     | 28                       | 3.75  | +0.75                     | 2.99                 | 0                         | 8                            | 19    | 10         | 2                            | s.        |                                                                                                                           |
| Cape May City.....                   | Cape May.....   | 17              | 42                      | 61.5                         | +2.9                      | 84      | 18    | 41     | 5     | 25                       | 3.75  | +0.76                     | 3.00                 | 0                         | 10                           | 8     | 22         | 1                            | s.        |                                                                                                                           |
| Sandy Hook.....                      | Monmouth.....   | 22              | 28                      | 57.4                         | -1.1                      | 80      | 18    | 41     | 4     | 24                       | 2.32  | -1.38                     | 1.20                 | 0                         | 10                           | 14    | 13         | 4                            | nw.       |                                                                                                                           |
| Means and extremes.....              |                 |                 |                         | 58.5                         | 0.0                       | 84      | 18    | 30     | 6     | 38                       | 3.48  | +0.17                     | 3.00                 | 0                         | 9                            | 15    | 13         | 3                            | nw.       |                                                                                                                           |
| For the State.....                   |                 |                 |                         | 59.1                         | -1.2                      | 90      | 2†    | 26     | 5     | 51                       | 2.58  | -1.09                     | 3.00                 | 0                         | 9                            | 18    | 9          | 4                            | nw.       |                                                                                                                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville and Runyon are Trenton.



Daily Precipitation for May, 1926

| Stations                                   | Drainage Basin  | Day of month |     |     |     |   |   |   |   |    |     |     |    |     |     |      |      |      |     |     |     |    |     |     |     |     |     |     |     |     |      |      | Total |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|---|---|---|---|----|-----|-----|----|-----|-----|------|------|------|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-------|
|                                            |                 | 1            | 2   | 3   | 4   | 5 | 6 | 7 | 8 | 9  | 10  | 11  | 12 | 13  | 14  | 15   | 16   | 17   | 18  | 19  | 20  | 21 | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30   | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |   |   |   |   |    |     |     |    |     |     |      |      |      |     |     |     |    |     |     |     |     |     |     |     |     |      |      |       |
| Belvidere.....                             | Delaware.....   | .04          |     | .24 |     |   |   |   |   |    |     |     |    |     | .06 | .05  | .14  |      |     |     | .33 |    |     | .26 |     |     |     | .16 |     |     | .54  | 1.82 |       |
| Charlotteburg.....                         | Passaic.....    |              | .08 |     |     |   |   |   |   |    |     |     |    |     | .53 | .10  | .22  |      |     | .25 |     |    | .21 |     |     |     | .14 |     |     | .24 | 1.77 |      |       |
| Culvers Lake.....                          | Delaware.....   | .04          |     | .30 | T.  |   |   |   |   |    |     |     |    |     | T.  | .04  | .02  |      |     | .55 | .11 |    | .05 |     |     |     | .02 |     |     | .50 | 1.63 |      |       |
| Dover.....                                 | Passaic.....    |              | .05 |     |     |   |   |   |   |    | .01 |     |    |     | .95 | .06  | .14  | .06  |     | .34 |     |    | .09 |     |     |     | .06 |     |     | .20 | 1.96 |      |       |
| Layton.....                                | Delaware.....   | .18          |     | .02 |     |   |   |   |   |    |     |     |    |     |     | T.   | T.   |      |     |     | .42 |    |     | .09 |     |     |     | .01 |     |     | .40  | 1.12 |       |
| Newton.....                                | Delaware.....   | .09          |     | .32 |     |   |   |   |   |    |     |     |    |     | .13 | T.   | .05  |      |     | .75 |     |    | T.  | .15 |     |     | .10 |     |     | .52 | 2.11 |      |       |
| Phillipsburg.....                          | do.....         | T.           |     | .04 |     |   |   |   |   |    |     |     | 1  |     | .09 | .06  | .24  |      | .26 | .36 |     |    | .12 |     | T.  |     | .18 |     |     | .86 | 2.21 |      |       |
| Sussex.....                                | Hudson.....     | .14          |     | .26 |     |   |   |   |   |    |     |     |    |     |     | .04  | T.   |      |     | *   | .86 |    |     | .17 |     |     |     | .12 |     |     | .54  | 2.13 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |   |   |   |   |    |     |     |    |     |     |      |      |      |     |     |     |    |     |     |     |     |     |     |     |     |      |      |       |
| Bergen Point**.....                        | Coast.....      |              |     | .05 |     |   |   |   |   |    |     |     |    |     | .62 | .37  | .61  |      | .07 | .27 | T.  |    |     | .03 |     |     |     | T.  |     |     | .26  | 2.28 |       |
| Boonton   .....                            | Passaic.....    | .06          |     | .02 |     |   |   |   |   |    |     | T.  |    |     | .62 | .05  | .06  | .32  |     | .17 | .29 |    |     | .04 |     |     |     | .18 |     |     | .11  | 1.92 |       |
| Chatham  .....                             | do.....         |              |     |     |     |   |   |   |   |    |     | T.  |    |     | .78 | .10  | .31  | .44  |     | .37 |     |    | .03 |     |     |     | *   | T.  |     | .11 | .24  | 2.38 |       |
| Elizabeth.....                             | Coast.....      | .01          |     | T.  |     |   |   |   |   |    |     |     |    |     | .23 | T.   | *    | 1.92 |     | .10 | .25 |    | T.  |     |     |     |     | .02 |     |     | .26  | 2.79 |       |
| Flemington.....                            | Raritan.....    | .04          |     | T.  |     |   |   |   |   | T. |     |     |    |     | .91 | T.   | .69  | .06  |     | .58 | .42 |    | .03 | T.  |     |     |     | T.  | .06 |     | .61  | 3.40 |       |
| Highwood.....                              | Hackensack..... | .03          |     | T.  |     |   |   |   |   |    |     | T.  |    |     | .70 | .17  | .49  | .24  |     | .05 | .19 |    |     | .06 |     |     |     | .08 | .05 |     | .25  | 2.31 |       |
| Jersey City.....                           | Coast.....      |              |     | .04 |     |   |   |   |   | T. |     |     |    |     | .61 | .50  | .75  | .15  | T.  | .13 | .21 |    |     | .03 |     |     |     | .04 |     |     | .21  | 2.67 |       |
| Lambertville.....                          | Delaware.....   | .03          |     |     |     |   |   |   |   |    |     |     |    | .38 | *   | 1.57 | .06  |      | .11 | .41 |     |    | .06 |     |     |     |     | .03 |     |     | .62  | 3.27 |       |
| Little Falls,   .....                      | Passaic.....    | .05          |     | T.  |     |   |   |   |   |    |     |     |    |     | .50 | .06  | .51  | .33  |     | .15 | .36 |    |     | .02 |     |     |     | .12 |     |     | .12  | 2.22 |       |
| New Brunswick.....                         | Raritan.....    | .03          |     |     |     |   |   |   |   |    |     |     |    |     | .30 | .02  | .87  | .08  |     | .14 | .17 |    |     | .02 |     |     |     | *   |     |     | .48  | 2.11 |       |
| New Milford.**.....                        | Hackensack..... |              |     |     |     |   |   |   |   |    |     |     |    |     | .89 | .48  | .36  | .05  |     | .28 |     |    | .04 |     |     |     |     | .13 |     |     | .26  | 2.49 |       |
| Paterson.....                              | Passaic.....    | .10          |     | .02 |     |   |   |   |   |    | T.  |     |    |     | .46 | .23  | .30  | .03  |     | .15 | .44 |    |     |     |     |     |     | .21 |     |     | .25  | 2.19 |       |
| Plainfield.....                            | Raritan.....    |              | .01 |     |     |   |   |   |   | T. |     |     |    |     | .57 | *    | 1.32 | .04  | T.  | .10 | .22 |    |     | .04 |     |     |     | .04 |     |     | .28  | 2.62 |       |
| Ridgefield.....                            | Hackensack..... | .08          |     | .03 |     |   |   |   |   |    |     | T.  |    |     | .43 | .45  | .91  | *    | T.  | .17 |     |    | .01 |     |     |     | *   |     | .09 |     | .18  | 2.35 |       |
| Somerville.....                            | Raritan.....    |              |     |     |     |   |   |   |   |    |     |     |    | .60 | .22 | .84  | .14  |      | .20 | .21 |     |    |     |     |     |     |     | .05 |     |     | .42  | 2.68 |       |
| South Orange.....                          | Rahway.....     |              |     |     |     |   |   |   |   |    |     |     |    |     | .63 | .19  | .51  | .17  |     | .12 | .34 |    |     |     |     |     |     | T.  | .10 |     | .17  | 2.33 |       |
| Verona.....                                | Passaic.....    | .08          |     | T.  | .02 |   |   |   |   |    |     |     |    |     | .63 | .19  | .51  | .17  |     | .12 | .34 |    |     |     |     |     |     | T.  | .10 |     | .26  | 1.08 |       |
| Woodcliff Lake**.....                      | Hackensack..... | .07          |     |     |     |   |   |   |   |    |     |     |    |     | .40 | .03  | .18  |      |     | .04 |     |    |     |     |     |     |     | .10 |     |     | .20  | 2.45 |       |
| New York, N. Y***                          | Coast.....      |              |     | .03 |     |   |   |   |   | T. |     |     |    |     | .58 | .42  | .81  | .03  | .08 | .23 |     |    | .03 |     |     |     |     | .04 |     |     |      |      |       |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |   |   |   |   |    |     |     |    |     |     |      |      |      |     |     |     |    |     |     |     |     |     |     |     |     |      |      |       |
| Belleplain.....                            | Tuckahoe.....   |              |     | .06 |     |   |   |   |   |    | T.  |     |    |     | .09 | .21  | 1.99 | .22  |     | .09 |     |    | .02 | .12 |     |     |     |     |     |     | .14  | 2.94 |       |
| Bridgeton.....                             | Coast.....      |              |     | .02 |     |   |   |   |   |    | T.  |     |    |     | .43 |      | 1.62 | .13  | T.  | .13 | .09 |    | T.  |     | .15 |     |     |     |     |     | .21  | 2.78 |       |
| Burlington.....                            | Delaware.....   |              |     | .02 |     |   |   |   |   |    | T.  |     |    |     | .38 |      | .74  | .50  |     | .09 | .07 |    |     | T.  |     | .20 |     |     |     |     | .32  | 1.12 |       |
| Clayton.....                               | Delaware.....   |              |     | .05 |     |   |   |   |   |    |     |     |    |     | *   | *    | 1.60 |      |     |     |     |    |     |     |     |     |     |     |     |     | .25  | 2.10 |       |
| Hammonton.....                             | Mullica.....    |              |     |     |     |   |   |   |   |    |     |     |    |     |     |      |      |      |     |     |     |    |     |     |     |     |     |     |     |     |      |      |       |
| Hightstown.....                            | Raritan.....    | .02          | T.  | .11 |     |   |   |   |   |    |     |     |    |     | .45 |      | .82  | .25  |     | .18 | .10 |    |     | T.  |     |     |     |     | .03 |     | .63  | 2.59 |       |
| Imlaystown.....                            | Delaware.....   |              |     |     |     |   |   |   |   |    |     |     |    |     | .33 | .21  | 1.35 | .32  |     | .08 |     |    | .09 | T.  |     |     |     |     |     |     | .30  | 2.86 |       |
| Indian Mills.....                          | Mullica.....    |              | T.  | .18 |     |   |   |   |   |    | T.  |     |    |     | .38 | .20  | 1.43 | .48  |     | .08 |     |    |     | T.  |     |     |     |     |     |     | .42  | 3.19 |       |
| Lakewood.....                              | Metedeconk..... |              |     | .20 |     |   |   |   |   |    | T.  |     |    |     | .63 |      | .90  | .43  |     | .15 |     |    |     | T.  |     |     |     |     |     |     | .33  | 2.46 |       |
| Moorestown.....                            | Delaware.....   | .02          |     |     |     |   |   |   |   |    |     |     |    |     | .10 |      | 2.85 | .36  |     |     |     |    | .02 |     | .06 |     |     |     |     |     | .12  | 3.66 |       |
| Northfield.....                            | Coast.....      |              |     | .13 |     |   |   |   |   |    |     |     |    |     | .11 |      | 1.12 | 2.00 |     |     |     |    | T.  |     |     |     |     |     |     |     | .05  | 3.49 |       |
| Pleasantville   .....                      | Coast.....      |              |     | .13 |     |   |   |   |   |    |     |     |    |     | .11 |      | 1.12 | 2.00 |     |     |     |    |     |     |     | .04 |     | .04 |     |     |      |      |       |
| Riverton   .....                           | Delaware.....   | T.           |     | .03 |     |   |   |   |   |    |     | T.  |    |     | .52 |      | .46  | .75  |     | .23 | .02 |    |     |     | T.  |     |     |     | T.  |     | .42  | 2.43 |       |
| Runyon.....                                | Coast.....      |              |     | .12 |     |   |   |   |   |    |     |     |    |     | .44 | .18  | .94  | .09  |     | .14 | .19 |    |     | .05 |     |     |     |     |     |     | .52  | 2.67 |       |
| Trenton***.....                            | Delaware.....   |              |     | T.  |     |   |   |   |   |    | T.  |     |    |     | .53 | .38  | 1.07 | .03  | .19 | .18 |     |    | T.  | .01 | T.  |     |     | .03 |     |     | .58  | 3.00 |       |
| Tuckerton.....                             | Coast.....      |              |     | .40 |     |   |   |   |   |    |     | .05 |    |     | .15 |      | 2.60 | .80  |     | .05 | .09 |    |     | .15 |     |     |     |     |     |     | .23  | 4.52 |       |
| Vineland.....                              | Maurice.....    |              |     | .03 |     |   |   |   |   |    |     |     |    |     | .22 |      | 2.02 | .30  |     | .04 | .09 |    |     |     | .15 |     |     |     |     |     | .18  | 3.03 |       |
| Phila., Pa***                              | Delaware.....   |              |     | .01 |     |   |   |   |   |    | .01 |     |    |     | .54 | .24  | .78  |      | .14 | T.  | .09 |    | T.  | .10 | .02 |     |     | .09 |     |     | .38  | 2.31 |       |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |   |   |   |   |    |     |     |    |     |     |      |      |      |     |     |     |    |     |     |     |     |     |     |     |     |      |      |       |
| Asbury Park.....                           | Coast.....      | .06          |     | .25 |     |   |   |   |   |    | .02 |     |    |     | .36 | .21  | 1.82 | .69  |     | .07 |     |    |     |     |     |     |     |     |     |     | .64  | 4.12 |       |
| Atlantic City***.....                      | do.....         |              |     | .19 |     |   |   |   |   |    |     |     |    |     | .14 | .76  | 2.45 | .03  |     |     |     | T. |     | T.  | .06 | .02 |     |     |     |     | .10  | 3.75 |       |
| Cape May City.....                         | do.....         |              | T.  | .10 |     |   |   |   |   |    | .04 |     |    |     | .17 | .12  | 3.00 | .15  |     | .03 |     |    | T.  |     |     | .10 |     |     | .02 |     |      | .02  | 3.75  |
| Sandy Hook***.....                         | do.....         | .01          |     | .13 |     |   |   |   |   |    | T.  | 1   |    |     | .53 | .01  | 1.20 | .02  | .09 | .08 |     |    |     |     | .03 |     |     |     | T.  |     |      | .22  | 2.32  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations              | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 29.90        | 30.38   | 28   | 29.48  | 9    | 16.8            | 48             | w.        | 1    | 70                                     | 62                                        | 74                                      | 77            |
| New York, N. Y.....   | 29.88        | 30.39   | 28   | 29.45  | 9    | 16.8            | 50             | nw        | 8    | 60                                     | 51                                        | 57                                      | 80            |
| Philadelphia, Pa..... | 29.91        | 30.40   | 28   | 29.52  | 9    | 9.7             | 30             | n.        | 8    | 62                                     | 49                                        | 54                                      | 73            |
| Ridgefield.....       | 29.88        | 30.39   | 28   | 29.44  | 9    |                 |                |           |      |                                        |                                           |                                         |               |
| Sandy Hook.....       | 29.88        | 30.38   | 28   | 29.45  | 9    | 14.2            | 43             | n.        | 8    | 69                                     | 55                                        | 65                                      | 76            |
| Trenton.....          | 29.88        | 30.37   | 28   | 29.50  | 9    | 9.1             | 42             | nw.       | 19   | 66                                     | 50                                        | 56                                      | 71            |
| Verona.....           | 29.91        | 30.39   | 28   | 29.50  | 10   | 5.8             | 24             | nw        | 3    |                                        |                                           | 60                                      |               |



## Daily Temperatures for May, 1926

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Belvidere.....                       | Maximum | 74 | 88 | 86 | 61 | 70 | 78 | 85 | 77 | 71 | 69 | 63 | 75 | 80 | 77 | 84 | 67 | 86 | 88 | 83 | 75 | 78 | 80 | 70 | 62 | 76 | 76 | 73 | 69 | 78 | 80 | 76   | 76.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 43 | 46 | 53 | 36 | 31 | 38 | 55 | 45 | 42 | 37 | 42 | 42 | 37 | 54 | 48 | 51 | 45 | 55 | 55 | 51 | 39 | 44 | 51 | 39 | 43 | 41 | 42 | 49 | 42 | 45 | 53   | 45.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Charlotteburg.....                   | Maximum | 73 | 84 | 80 | 75 | 66 | 74 | 80 | 72 | 73 | 69 | 57 | 68 | 74 | 68 | 74 | 68 | 80 | 81 | 81 | 74 | 70 | 74 | 69 | 62 | 68 | 68 | 67 | 64 | 75 | 76 | 68   | 72.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 42 | 40 | 44 | 32 | 27 | 29 | 46 | 38 | 29 | 29 | 41 | 40 | 29 | 39 | 49 | 51 | 49 | 51 | 48 | 31 | 31 | 31 | 38 | 42 | 35 | 37 | 40 | 35 | 34 | 48 | 39.4 |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dover.....                           | Maximum | 73 | 83 | 79 | 69 | 69 | 78 | 81 | 73 | 67 | 68 | 61 | 72 | 76 | 71 | 77 | 66 | 83 | 85 | 75 | 70 | 72 | 76 | 64 | 61 | 72 | 70 | 67 | 64 | 73 | 78 | 69   | 72.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 43 | 43 | 50 | 35 | 30 | 36 | 50 | 42 | 40 | 38 | 47 | 40 | 35 | 53 | 46 | 51 | 51 | 57 | 59 | 48 | 36 | 40 | 46 | 37 | 40 | 39 | 43 | 46 | 43 | 42 | 51   | 43.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Layton.....                          | Maximum | 70 | 85 | 80 | 56 | 68 | 75 | 80 | 70 | 63 | 70 | 58 | 69 | 76 | 72 | 74 | 59 | 82 | 82 | 79 | 69 | 74 | 76 | 68 | 62 | 70 | 69 | 67 | 66 | 75 | 78 | 75   | 71.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 40 | 43 | 50 | 33 | 26 | 32 | 51 | 39 | 38 | 28 | 40 | 42 | 30 | 50 | 41 | 50 | 44 | 42 | 55 | 42 | 32 | 40 | 47 | 33 | 33 | 34 | 38 | 43 | 38 | 36 | 51   | 40.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newton.....                          | Maximum | 70 | 85 | 81 | 60 | 67 | 73 | 79 | 72 | 65 | 67 | 60 | 70 | 76 | 74 | 72 | 60 | 82 | 83 | 78 | 68 | 73 | 75 | 65 | 60 | 70 | 75 | 68 | 66 | 75 | 77 | 68   | 71.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 45 | 45 | 51 | 30 | 32 | 41 | 50 | 46 | 38 | 38 | 40 | 42 | 30 | 50 | 41 | 50 | 44 | 42 | 55 | 42 | 32 | 40 | 47 | 33 | 33 | 34 | 38 | 43 | 38 | 36 | 51   | 40.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phillipsburg.....                    | Maximum | 71 | 82 | 82 | 61 | 69 | 76 | 82 | 76 | 75 | 72 | 63 | 74 | 78 | 76 | 80 | 62 | 84 | 88 | 84 | 78 | 75 | 81 | 61 | 65 | 73 | 77 | 70 | 70 | 81 | 76 | 74.9 |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 45 | 46 | 49 | 39 | 35 | 39 | 56 | 46 | 45 | 37 | 45 | 44 | 38 | 56 | 49 | 52 | 47 | 46 | 56 | 49 | 40 | 44 | 46 | 41 | 46 | 43 | 41 | 50 | 43 | 45 | 54   | 45.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sussex.....                          | Maximum | 73 | 86 | 83 | 77 | 69 | 77 | 78 | 73 | 65 | 70 | 62 | 70 | 77 | 77 | 64 | 84 | 85 | 81 | 69 | 73 | 77 | 72 | 68 | 70 | 71 | 68 | 68 | 77 | 78 | 72 | 73.7 |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 42 | 45 | 49 | 34 | 26 | 33 | 49 | 41 | 36 | 30 | 42 | 42 | 31 | 43 | 51 | 46 | 45 | 55 | 50 | 34 | 40 | 50 | 35 | 39 | 40 | 41 | 40 | 40 | 40 | 51 | 41.4 |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The Red Sawstone Plain.              |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bergen Point.....                    | Maximum | 65 | 77 | 83 | 59 | 64 | 68 | 71 | 72 | 67 | 65 | 65 | 71 | 71 | 72 | 70 | 61 | 82 | 85 | 74 | 71 | 68 | 73 | 65 | 65 | 73 | 73 | 71 | 67 | 73 | 80 | 71   | 70.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 50 | 47 | 43 | 40 | 42 | 51 | 47 | 47 | 47 | 47 | 48 | 47 | 44 | 54 | 51 | 51 | 51 | 51 | 51 | 54 | 46 | 46 | 50 | 45 | 49 | 49 | 49 | 49 | 46 | 50 | 55   | 47.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Boonton§§.....                       | Maximum | 70 | 83 | 80 | 58 | 70 | 76 | 78 | 78 | 60 | 69 | 60 | 71 | 74 | 70 | 76 | 62 | 83 | 84 | 77 | 70 | 72 | 72 | 62 | 61 | 72 | 70 | 70 | 66 | 76 | 75 | 67   | 71.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 41 | 39 | 46 | 35 | 28 | 32 | 44 | 39 | 32 | 32 | 44 | 43 | 32 | 50 | 42 | 49 | 50 | 56 | 52 | 52 | 35 | 37 | 52 | 36 | 33 | 43 | 43 | 42 | 37 | 39 | 49   | 41.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Elizabeth.....                       | Maximum | 69 | 81 | 88 | 57 | 72 | 75 | 73 | 74 | 71 | 68 | 65 | 74 | 74 | 77 | 68 | 84 | 85 | 81 | 73 | 71 | 73 | 68 | 62 | 75 | 75 | 71 | 68 | 75 | 82 | 74 | 74.0 |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 47 | 49 | 44 | 37 | 34 | 38 | 49 | 42 | 39 | 38 | 47 | 43 | 38 | 54 | 48 | 52 | 52 | 58 | 57 | 54 | 40 | 41 | 54 | 41 | 43 | 43 | 47 | 44 | 42 | 45 | 53   | 45.6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flemington.....                      | Maximum | 76 | 86 | 83 | 76 | 73 | 79 | 81 | 77 | 73 | 68 | 63 | 75 | 77 | 74 | 79 | 66 | 83 | 82 | 77 | 75 | 73 | 78 | 70 | 63 | 77 | 73 | 67 | 67 | 77 | 77 | 73   | 74.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 45 | 43 | 48 | 38 | 35 | 38 | 52 | 42 | 44 | 38 | 45 | 42 | 36 | 54 | 49 | 53 | 52 | 60 | 56 | 53 | 40 | 41 | 53 | 39 | 42 | 43 | 47 | 50 | 42 | 44 | 52   | 45.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Highwood.....                        | Maximum | 69 | 80 | 75 | 60 | 66 | 75 | 77 | 75 | 68 | 66 | 62 | 73 | 72 | 70 | 72 | 58 | 81 | 84 | 74 | 71 | 68 | 71 | 62 | 64 | 72 | 73 | 65 | 63 | 71 | 80 | 65   | 70.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 44 | 44 | 48 | 40 | 32 | 34 | 48 | 42 | 34 | 35 | 47 | 39 | 34 | 52 | 46 | 52 | 53 | 52 | 57 | 53 | 38 | 40 | 49 | 40 | 43 | 39 | 48 | 43 | 42 | 43 | 55   | 44.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jersey City.....                     | Maximum | 65 | 78 | 75 | 59 | 65 | 70 | 70 | 72 | 68 | 64 | 62 | 72 | 71 | 72 | 75 | 57 | 80 | 83 | 74 | 71 | 66 | 70 | 65 | 60 | 73 | 73 | 70 | 64 | 73 | 77 | 67   | 69.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 50 | 48 | 50 | 39 | 39 | 46 | 51 | 54 | 42 | 49 | 47 | 47 | 51 | 53 | 53 | 51 | 52 | 61 | 59 | 53 | 53 | 51 | 47 | 45 | 50 | 50 | 51 | 50 | 47 | 51 | 55   | 49.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lambertville.....                    | Maximum | 72 | 84 | 80 | 60 | 67 | 74 | 75 | 69 | 64 | 60 | 60 | 60 | 77 | 75 | 78 | 78 | 61 | 81 | 81 | 69 | 71 | 78 | 67 | 74 | 57 | 70 | 70 | 67 | 74 | 77 | 76   | 72.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 47 | 44 | 55 | 37 | 35 | 40 | 43 | 44 | 42 | 44 | 40 | 41 | 35 | 50 | 52 | 51 | 59 | 57 | 44 | 47 | 44 | 51 | 39 | 43 | 47 | 47 | 47 | 47 | 47 | 47 | 47   | 72.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Little Falls§§.....                  | Maximum | 73 | 85 | 72 | 57 | 74 | 78 | 80 | 77 | 68 | 69 | 60 | 73 | 72 | 74 | 75 | 66 | 85 | 90 | 83 | 79 | 77 | 69 | 63 | 58 | 73 | 70 | 70 | 69 | 72 | 83 | 68   | 73.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 44 | 43 | 49 | 39 | 35 | 36 | 48 | 42 | 35 | 34 | 46 | 41 | 35 | 53 | 45 | 52 | 52 | 53 | 55 | 53 | 38 | 40 | 50 | 41 | 39 | 39 | 43 | 43 | 41 | 43 | 53   | 43.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Brunswick.....                   | Maximum | 69 | 86 | 85 | 80 | 67 | 74 | 75 | 74 | 74 | 67 | 61 | 70 | 78 | 72 | 75 | 71 | 79 | 82 | 80 | 72 | 70 | 79 | 74 | 59 | 73 | 71 | 68 | 66 | 74 | 77 | 73   | 73.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 47 | 43 | 53 | 39 | 33 | 38 | 52 | 44 | 43 | 41 | 47 | 42 | 37 | 54 | 50 | 51 | 53 | 60 | 58 | 54 | 41 | 40 | 54 | 40 | 43 | 42 | 49 | 47 | 42 | 47 | 52   | 46.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paterson.....                        | Maximum | 73 | 85 | 85 | 68 | 71 | 75 | 79 | 77 | 70 | 71 | 64 | 74 | 75 | 71 | 77 | 60 | 84 | 88 | 80 | 72 | 71 | 75 | 65 | 65 | 75 | 76 | 70 | 67 | 76 | 83 | 70   | 73.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 47 | 46 | 52 | 40 | 28 | 41 | 51 | 47 | 40 | 42 | 48 | 45 | 43 | 54 | 50 | 52 | 53 | 60 | 59 | 54 | 41 | 40 | 54 | 40 | 43 | 42 | 49 | 47 | 42 | 47 | 52   | 46.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plainfield.....                      | Maximum | 72 | 85 | 84 | 60 | 70 | 74 | 73 | 72 | 71 | 67 | 65 | 74 | 77 | 72 | 76 | 57 | 80 | 83 | 74 | 72 | 68 | 75 | 65 | 60 | 73 | 70 | 70 | 65 | 74 | 79 | 68   | 71.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 46 | 41 | 47 | 37 | 34 | 36 | 45 | 52 | 35 | 35 | 46 | 40 | 35 | 50 | 46 | 51 | 49 | 59 | 57 | 53 | 37 | 38 | 41 | 41 | 42 | 39 | 45 | 45 | 39 | 43 | 51   | 43.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ridgefield.....                      | Maximum | 65 | 78 | 75 | 61 | 70 | 71 | 75 | 75 | 70 | 63 | 62 | 73 | 69 | 72 | 73 | 55 | 83 | 84 | 72 | 71 | 66 | 69 | 63 | 63 | 73 | 73 | 66 | 67 | 73 | 77 | 64   | 70.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 47 | 48 | 50 | 39 | 35 | 39 | 50 | 45 | 37 | 39 | 46 | 43 | 41 | 53 | 51 | 51 | 52 | 60 | 58 | 48 | 44 | 45 | 45 | 45 | 41 | 46 | 45 | 46 | 45 | 50 | 54   | 46.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Somerville.....                      | Maximum | 75 | 87 | 83 | 70 | 71 | 78 | 76 | 70 | 69 | 63 | 62 | 73 | 69 | 72 | 73 | 55 | 83 | 84 | 72 | 71 | 66 | 69 | 63 | 63 | 73 | 73 | 66 | 67 | 73 | 77 | 64   | 74.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 46 | 41 | 51 | 37 | 30 | 37 | 42 | 35 | 42 | 42 | 41 | 35 | 45 | 53 | 52 | 51 | 55 | 54 | 54 | 38 | 55 | 33 | 38 | 37 | 45 | 48 | 48 | 38 | 39 | 52 | 43.3 |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| South Orange.....                    | Maximum | 67 | 81 | 81 | 56 | 64 | 70 | 72 | 71 | 64 | 66 | 59 | 68 | 69 | 73 | 75 | 79 | 82 | 82 | 72 | 67 | 67 | 65 | 69 | 62 | 59 | 69 | 68 | 66 | 63 | 71 | 75   | 65   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 47 | 48 | 50 | 37 | 35 | 41 | 49 | 48 | 37 | 41 | 48 | 43 | 43 | 53 | 50 | 50 | 52 | 60 | 58 | 52 | 43 | 45 | 44 | 41 | 46 | 43 | 49 | 45 | 45 | 49 | 52   | 46.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New York, N. Y.....                  | Maximum | 62 | 74 | 72 | 57 | 60 | 66 | 67 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI. JUNE, 1926. No. 6

### GENERAL SUMMARY.

Scattered throughout the month were some four or five days when temperatures were slightly above normal, otherwise it was generally decidedly colder than normal. In the record of more than 40 years there have been but three colder Junes, namely, in 1903, 1907, and in 1916, that of 1903 being slightly the coldest. In each of the above named months, there was a moderate excess of rainfall, that of 1903 having been the wettest June on record in New Jersey. The low temperature of June 1926, however, was accompanied by a marked deficiency of rain, so that no deleterious effects resulted to agriculture. Vegetation was some two weeks later than its usual stage of advancement, but growth was substantial.

The persistent low temperature was a frequent basis for comment, especially in connection with the fact that the three preceding months have been subnormal in warmth. June last year was the warmest on record, having been nearly nine degrees above that of this year.

Storm warnings were displayed along the northern coast on the 6th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 40 stations, was 64.9°, which was 3.6° below normal. The highest temperature was 97° at Cape May City on the 30th, and the lowest, 31° at Layton on the 20th. The greatest daily range of temperature was 48° at Belleplain on the 21st. The highest monthly mean temperature was 68.6° at Cape May City, and the lowest, 61.1° at Layton.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -2.0°; Red Sandstone Plain, -2.2°; Southern Interior, -1.5°; Sea Coast, -0.7°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 2.60 inches, which was 1.10 inches below normal. The greatest monthly precipitation was 4.73 inches, at Indian Mills, and the least, 1.29 inches at Atlantic City. The greatest amount of precipitation in any 24 consecutive hours was 1.96 inches at Sussex on the 2d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 1 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -5.68 inches; Red Sandstone Plain, -6.19 inches; Southern Interior, -5.10 inches; Sea Coast, -5.45 inches.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 11 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive minutes, was 55 miles per hour from the northwest at Sandy Hook on the 2d.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 12, which was 1 less than normal; partly cloudy, 9, or 1 less than normal; cloudy, 9, or 2 more than normal. The per cent of possible sunshine was 63, which was 2 per cent above normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.8 feet, and the highest 2.6 feet on the 5th. At Trenton the mean daily stage was 1.0 foot, which was 0.9 foot below the normal; the highest stage was 1.8 feet on the 4th.

The mean atmospheric pressure, reduced to sea level, was 29.93 inches, which was 0.05 inch below normal. The highest reading was 30.28 inches at Ridgefield on the 17th and Sandy Hook on the 21st, and the lowest, 29.51 at Verona on the 15th.

Thunderstorms occurred on the 1st, 2d, 3d, 5th, 7th to the 10th, inclusive, 14th, 15th, and 22d to the 26th, inclusive. Solar halos were observed on the 3d, 6th, 20th, and 27th; and a lunar halo on the 28th. The aurora was observed on the 1st. Frosts were reported at scattered points as far south as the Southern Interior on some of the following dates: 4th, 17th, 20th, and 21st; Layton reported damage to tender plants on the 20th, with a minimum of 31°.

Scattered occurrences of hail were reported on the 2d, 7th, 8th, 10th, and 24th, without damage, except that of the 7th in portions of Cumberland County south of Bridgeton; in this storm, truck, fruit and plant beds for some 3 or 4 miles were ruined with a money loss of some \$150,000.

### ERRATA.

November, 1924: Clayton, monthly mean temperature 45.5d, instead of 45.0d, and departure +1.2 instead of +0.7; mean maximum 58.1c instead of 56.1c.

December, 1924: Bergen Point, 0.07 on 17th, total precipitation 2.58 inches instead of 2.51; departure -1.80 instead of -1.87; number of days with 0.01 inch or more 7 instead of 6. Average snowfall for the State 0.4 inch, which was 6.1 inches below normal instead of 4.3 inches with 2.2 inches below normal.

### COMPARATIVE DATA FOR JUNE

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 68.7        | 97      | 39     | 1.79          | 3.37     | 0.72  | .....       | .....         | .....  | .....                  |
| 1886..... | 67.1        | 91      | 41     | 3.38          | 5.79     | 2.22  | .....       | .....         | .....  | .....                  |
| 1887..... | 68.2        | 97      | 42     | 6.77          | 10.29    | 4.21  | .....       | .....         | 9      | 10                     |
| 1888..... | 70.8        | 99      | 39     | 2.59          | 5.69     | 1.67  | .....       | .....         | 5      | 6                      |
| 1889..... | 69.9        | 91      | 40     | 3.73          | 6.75     | 2.39  | .....       | .....         | 10     | 10                     |
| 1890..... | 70.7        | 95      | 42     | 3.59          | 5.16     | 0.99  | 11          | 13            | 6      | 7                      |
| 1891..... | 69.7        | 102     | 38     | 2.92          | 6.71     | 1.24  | 14          | 9             | 7      | 5                      |
| 1892..... | 72.4        | 98      | 44     | 3.85          | 6.12     | 1.58  | 10          | 12            | 8      | 11                     |
| 1893..... | 69.7        | 103     | 40     | 2.95          | 7.02     | 0.46  | 10          | 11            | 9      | 8                      |
| 1894..... | 70.6        | 102     | 35     | 2.28          | 5.90     | 0.99  | 14          | 11            | 5      | 9                      |
| 1895..... | 71.7        | 103     | 39     | 3.24          | 5.99     | 0.93  | 11          | 11            | 8      | 10                     |
| 1896..... | 68.1        | 96      | 37     | 5.46          | 13.45    | 2.64  | 12          | 10            | 8      | 10                     |
| 1897..... | 66.1        | 95      | 35     | 3.38          | 5.50     | 2.12  | 10          | 13            | 7      | 10                     |
| 1898..... | 70.1        | 100     | 38     | 2.10          | 3.54     | 1.13  | 14          | 12            | 4      | 8                      |
| 1899..... | 72.3        | 103     | 38     | 2.50          | 4.34     | 1.01  | 15          | 10            | 5      | 7                      |
| 1900..... | 70.4        | 97      | 39     | 3.08          | 4.91     | 1.10  | 12          | 12            | 6      | 8                      |
| 1901..... | 70.0        | 103     | 35     | 1.57          | 4.36     | 0.73  | 18          | 8             | 4      | 5                      |
| 1902..... | 67.5        | 99      | 37     | 6.57          | 10.21    | 4.54  | 14          | 11            | 5      | 11                     |
| 1903..... | 64.0        | 92      | 37     | 7.68          | 15.02    | 2.39  | 6           | 10            | 14     | 15                     |
| 1904..... | 68.6        | 100     | 34     | 3.13          | 5.44     | 1.91  | 13          | 10            | 7      | 12                     |
| 1905..... | 68.3        | 96      | 35     | 3.43          | 8.71     | 1.67  | 11          | 12            | 7      | 10                     |
| 1906..... | 70.4        | 98      | 38     | 4.48          | 9.18     | 1.45  | 11          | 11            | 8      | 12                     |
| 1907..... | 64.7        | 96      | 31     | 4.41          | 6.85     | 3.15  | 12          | 10            | 8      | 10                     |
| 1908..... | 69.9        | 99      | 35     | 2.32          | 4.63     | 0.77  | 16          | 12            | 2      | 4                      |
| 1909..... | 70.0        | 99      | 36     | 3.26          | 5.70     | 1.71  | 9           | 10            | 11     | 12                     |
| 1910..... | 66.9        | 95      | 34     | 5.17          | 8.01     | 2.66  | 9           | 10            | 11     | 13                     |
| 1911..... | 68.9        | 97      | 40     | 5.36          | 10.11    | 2.84  | 9           | 12            | 9      | 14                     |
| 1912..... | 68.0        | 98      | 33     | 1.94          | 3.61     | 0.91  | 9           | 12            | 9      | 8                      |
| 1913..... | 69.1        | 98      | 31     | 1.80          | 3.76     | 0.68  | 19          | 8             | 3      | 5                      |
| 1914..... | 68.5        | 98      | 35     | 2.66          | 4.85     | 1.09  | 16          | 9             | 6      | 7                      |
| 1915..... | 67.0        | 95      | 37     | 3.12          | 6.51     | 1.40  | 13          | 10            | 7      | 11                     |
| 1916..... | 64.7        | 87      | 36     | 4.20          | 5.99     | 2.22  | 10          | 9             | 11     | 13                     |
| 1917..... | 68.9        | 95      | 40     | 4.27          | 7.14     | 2.80  | 13          | 10            | 7      | 12                     |
| 1918..... | 66.3        | 96      | 32     | 3.43          | 6.21     | 1.35  | 15          | 9             | 6      | 8                      |
| 1919..... | 69.5        | 99      | 38     | 3.16          | 3.58     | 0.37  | 16          | 7             | 7      | 8                      |
| 1920..... | 68.4        | 98      | 38     | 6.18          | 11.26    | 3.12  | 13          | 9             | 8      | 12                     |
| 1921..... | 70.4        | 100     | 33     | 3.23          | 5.64     | 1.40  | 18          | 7             | 5      | 8                      |
| 1922..... | 71.1        | 95      | 39     | 6.31          | 11.50    | 2.97  | 12          | 9             | 9      | 15                     |
| 1923..... | 72.5        | 106     | 37     | 2.08          | 5.44     | 0.72  | 18          | 8             | 4      | 7                      |
| 1924..... | 66.8        | 95      | 50     | 4.20          | 7.32     | 1.72  | 11          | 11            | 8      | 13                     |
| 1925..... | 73.6        | 103     | 36     | 3.10          | 6.16     | 0.72  | 17          | 9             | 4      | 9                      |
| 1926..... | 64.9        | 97      | 31     | 2.60          | 4.73     | 1.29  | 12          | 9             | 9      | 11                     |



## Climatological Data for June, 1926

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Prevailing direction of wind | Observers                                                                                                                 |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy | Cloudy |                              |                                                                                                                           |
|                                             |                 |                 |                         |                              |                           |         |       |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Belvidere.....                              | Warren.....     | 289             | 35                      | 64.8                         | -4.0                      | 89      | 30    | 41     | 4     | 37                   | 2.54                     | -1.46                     | 0.61                 | 0                         | 11                           | 20    | 3          | 7      | .....                        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719             | 34                      | 61.6 <sup>b</sup>            | -3.2                      | 84      | 11†   | 32     | 4†    | 40                   | 2.81                     | -1.31                     | 0.68                 | 0                         | 10                           | 3     | 6          | 21     | w.                           |                                                                                                                           |
| Culvers Lake††.....                         | Sussex.....     | 848             | 25                      | 62.5                         | .....                     | .....   | ..... | 38     | 4     | .....                | 3.79                     | -0.82                     | 1.82                 | 0                         | 14                           | 14    | 5          | 11     | sw.                          |                                                                                                                           |
| Dover.....                                  | Morris.....     | 600             | 42                      | 62.6 <sup>a</sup>            | -4.1                      | 87      | 30    | 38     | 4     | 33                   | 4.45                     | +0.42                     | 1.54                 | 0                         | 13                           | 3     | 16         | 11     | .....                        |                                                                                                                           |
| Layton.....                                 | Sussex.....     | 480             | 25                      | 61.1                         | -4.4                      | 85      | 29†   | 31     | 20    | 43                   | 2.59                     | -1.20                     | 0.50                 | 0                         | 14                           | 12    | 6          | 12     | sw.                          | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                      |
| Newton.....                                 | Sussex.....     | 769             | 42                      | 62.6                         | -5.4                      | 85      | 30    | 39     | 4     | 32                   | 3.85                     | -0.13                     | 0.64                 | 0                         | 14                           | 12    | 9          | 9      | sw.                          |                                                                                                                           |
| Phillipsburg.....                           | Warren.....     | 363             | 43                      | 65.4 <sup>b</sup>            | -3.9                      | 90      | 14    | 43     | 21    | 40                   | 2.87                     | -0.76                     | 0.98                 | 0                         | 11                           | 11    | 8          | 11     | .....                        |                                                                                                                           |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 62.2                         | -4.6                      | 86      | 30    | 34     | 20    | 40                   | 4.48                     | +0.80                     | 1.96                 | 0                         | 14                           | 11    | 9          | 10     | n.                           |                                                                                                                           |
| Means and extremes.....                     |                 |                 |                         | 62.9                         | -4.2                      | 90      | 14    | 31     | 20    | 43                   | 3.42                     | -0.56                     | 1.96                 | 0                         | 13                           | 11    | 8          | 11     | sw.                          |                                                                                                                           |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Bergen Point††.....                         | Hudson.....     | 37              | 29                      | 66.0 <sup>b</sup>            | -2.4                      | 87      | 28†   | 47     | 4†    | 25                   | 2.33                     | -1.45                     | 1.37                 | 0                         | 11                           | 1     | 24         | 5      | sw.                          | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                 |
| Boonton.....                                | Morris.....     | 400             | 36                      | 62.2                         | -5.4                      | 87      | 30    | 34     | 4     | 36                   | 3.09                     | -0.58                     | 0.86                 | 0                         | 10                           | 17    | 0          | 13     | ne.                          |                                                                                                                           |
| Chatham.....                                | Morris.....     | 185             | 22                      | 62.2                         | .....                     | .....   | ..... | .....  | ..... | .....                | 2.14                     | -1.92                     | 0.68                 | 0                         | 10                           | 21    | 4          | 5      | .....                        |                                                                                                                           |
| Elizabeth.....                              | Union.....      | 45              | 47                      | 66.2                         | -4.3                      | 90      | 30    | 40     | 4     | 34                   | 3.30                     | -0.32                     | 1.43                 | 0                         | 11                           | 8     | 15         | 7      | nw.                          |                                                                                                                           |
| Flemington.....                             | Hunterdon.....  | 140             | 34                      | 65.6                         | -3.6                      | 90      | 30    | 41     | 4     | 36                   | 2.51                     | -1.33                     | 0.93                 | 0                         | 12                           | 16    | 5          | 9      | nw.                          | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                          |
| Highwood††.....                             | Bergen.....     | 90              | 38                      | 63.4                         | -4.2                      | 87      | 29†   | 39     | 4     | 33                   | 1.40                     | -2.29                     | 0.34                 | 0                         | 9                            | 13    | 7          | 10     | sw.                          |                                                                                                                           |
| Jersey City.....                            | Hudson.....     | 10              | 28                      | 66.0                         | -4.9                      | 87      | 15†   | 48     | 4     | 29                   | 2.58                     | -0.92                     | 1.30                 | 0                         | 12                           | 9     | 14         | 7      | nw.                          |                                                                                                                           |
| Lambertville.....                           | Hunterdon.....  | 370             | 39                      | 64.4                         | -5.3                      | 86      | 14†   | 43     | 21    | 34                   | 3.20                     | -0.71                     | 1.06                 | 0                         | 15                           | 14    | 6          | 10     | w.                           |                                                                                                                           |
| Little Falls.....                           | Passaic.....    | 180             | 23                      | 64.4                         | -3.6                      | 89      | 30    | 39     | 4     | 35                   | 1.69                     | -1.83                     | 0.32                 | 0                         | 9                            | 12    | 10         | 8      | nw.                          | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.      |
| New Brunswick.....                          | Middlesex.....  | 110             | 73                      | 64.9                         | -4.2                      | 87      | 30    | 42     | 4     | 31                   | 2.70                     | -1.06                     | 1.41                 | 0                         | 13                           | 10    | 12         | 8      | w.                           |                                                                                                                           |
| New Milford††.....                          | Bergen.....     | 9               | 8                       | 65.7                         | -2.6                      | 91      | 29†   | 44     | 4     | 32                   | 1.48                     | -0.31                     | 0.31                 | 0                         | 9                            | ..... | .....      | .....  | .....                        |                                                                                                                           |
| Paterson.....                               | Passaic.....    | 80              | 55                      | 67.2                         | -2.6                      | 91      | 29†   | 44     | 4     | 32                   | 1.76                     | -2.36                     | 0.31                 | 0                         | 10                           | 16    | 2          | 12     | sw.                          |                                                                                                                           |
| Plainfield.....                             | Union.....      | 120             | 38                      | 63.5 <sup>a</sup>            | -5.1                      | 87      | 30    | 38     | 4     | 33                   | 2.86                     | -0.88                     | 1.43                 | 0                         | 14                           | 9     | 11         | 10     | nw.                          |                                                                                                                           |
| Ridgefield.....                             | Bergen.....     | 80              | 9                       | 64.1                         | .....                     | 87      | 30    | 43     | 4     | 30                   | 2.10                     | .....                     | 0.50                 | 0                         | 10                           | 9     | 13         | 8      | se.                          | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach<br>Luther Davis.<br>Hackensack Water Co.                             |
| Somerville.....                             | Somerset.....   | 70              | 43                      | 64.8                         | -4.3                      | 89      | 30    | 37     | 4     | 38                   | 2.49                     | -1.25                     | 1.21                 | 0                         | 10                           | 22    | 3          | 5      | w.                           |                                                                                                                           |
| South Orange.....                           | Essex.....      | 200             | 56                      | 65.4 <sup>f</sup>            | -3.1                      | 82      | 29    | .....  | ..... | .....                | .....                    | .....                     | 0.51                 | 0                         | 11                           | 18    | 1          | 11     | nw.                          |                                                                                                                           |
| Verona.....                                 | Essex.....      | 490             | .....                   | 63.1                         | .....                     | 85      | 30    | 42     | 4     | 29                   | 2.04                     | .....                     | 0.41                 | 0                         | 11                           | 10    | 8          | 12     | e.                           |                                                                                                                           |
| Woodcliff Lake††.....                       | Bergen.....     | 100             | 8                       | 63.1                         | .....                     | 85      | 30    | 42     | 4     | 29                   | 1.95                     | .....                     | 0.34                 | 0                         | 11                           | ..... | .....      | .....  | .....                        |                                                                                                                           |
| New York, N. Y.....                         |                 | 365             | 56                      | 64.9                         | -3.9                      | 84      | 30    | 48     | 4     | 28                   | 2.47                     | -0.79                     | 1.38                 | 0                         | 12                           | 6     | 14         | 10     | nw.                          | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....                     |                 |                 |                         | 64.7                         | -4.1                      | 91      | 29†   | 34     | 4     | 38                   | 2.33                     | -1.30                     | 1.48                 | 0                         | 11                           | 13    | 8          | 9      | nw.                          |                                                                                                                           |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Belleplain.....                             | Cape May.....   | 30              | 32                      | 64.9 <sup>d</sup>            | -3.8                      | 91      | 14    | 33     | 21    | 48                   | 1.95                     | -1.27                     | 0.68                 | 0                         | 11                           | ..... | .....      | .....  | .....                        | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                     |
| Bridgeton.....                              | Cumberland..... | 90              | 45                      | 66.9 <sup>e</sup>            | -5.2                      | 92      | 14    | 43     | 17†   | 38                   | 2.88                     | -0.85                     | 0.81                 | 0                         | 10                           | 15    | 5          | 10     | sw.                          |                                                                                                                           |
| Burlington.....                             | Burlington..... | 12              | 34                      | 67.2                         | -2.5                      | 92      | 14    | 44     | 17    | 32                   | 2.30                     | -1.58                     | 0.71                 | 0                         | 12                           | 7     | 8          | 15     | nw.                          |                                                                                                                           |
| Clayton.....                                | Gloucester..... | 130             | 30                      | 68.0 <sup>b</sup>            | -1.5                      | 93      | 14    | 44     | 17†   | 35                   | 2.05                     | -1.62                     | .....                | 0                         | 9                            | 13    | 6          | 11     | s.                           |                                                                                                                           |
| Hammononton.....                            | Atlantic.....   | 103             | 24                      | 65.6 <sup>d</sup>            | -3.4                      | 89      | 14    | 39     | 21    | 33                   | 2.57                     | -1.03                     | 1.10                 | 0                         | 10                           | ..... | .....      | .....  | .....                        | R. E. Montgomery.<br>Harvey M. Grover.<br>Frank M. Lawrence.<br>James M. Armstrong.                                       |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 65.6 <sup>d</sup>            | -3.4                      | 89      | 14    | 39     | 21    | 33                   | 2.57                     | -1.03                     | 1.10                 | 0                         | 10                           | ..... | .....      | .....  | .....                        |                                                                                                                           |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 65.9                         | -3.9                      | 92      | 14    | 38     | 21    | 38                   | 4.73                     | +0.60                     | 1.51                 | 0                         | 11                           | 10    | 11         | 9      | nw.                          |                                                                                                                           |
| Indian Mills††.....                         | Burlington..... | 76              | 37                      | 65.9                         | -3.9                      | 92      | 14    | 38     | 21    | 38                   | 4.73                     | +0.60                     | 1.51                 | 0                         | 11                           | 10    | 11         | 9      | nw.                          |                                                                                                                           |
| Lakewood.....                               | Ocean.....      | 54              | 22                      | 64.6                         | -2.9                      | 89      | 30    | 38     | 17†   | 34                   | 3.10                     | -0.61                     | 0.70                 | 0                         | 15                           | 12    | 8          | 10     | sw.                          | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                       |
| Moorestown.....                             | Burlington..... | 75              | 63                      | 65.6                         | -4.4                      | 93      | 14    | 43     | 4†    | 36                   | 3.23                     | -0.49                     | 1.60                 | 0                         | 10                           | 14    | 7          | 9      | w.                           |                                                                                                                           |
| Northfield††.....                           | Atlantic.....   | 25              | 19                      | 64.4 <sup>a</sup>            | .....                     | 91      | 30    | 37     | 21    | 35                   | 1.59                     | -2.08                     | 0.50                 | 0                         | 9                            | ..... | .....      | .....  | .....                        |                                                                                                                           |
| Pleasantville††.....                        | Atlantic.....   | 26              | 28                      | 64.4 <sup>a</sup>            | .....                     | 91      | 30    | 37     | 21    | 35                   | 2.06                     | -1.87                     | 0.69                 | 0                         | 9                            | 19    | 7          | 4      | s.                           |                                                                                                                           |
| Riverton.....                               | Burlington..... | .....           | .....                   | 65.2                         | .....                     | 92      | 14    | 42     | 4     | 33                   | 2.80                     | .....                     | 1.10                 | 0                         | 11                           | 14    | 8          | 8      | .....                        | Japanese Bettle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes |
| Runyon††.....                               | Middlesex.....  | 18              | 2                       | 64.2 <sup>b</sup>            | .....                     | 89      | 30    | 33     | 20†   | 43                   | 2.94                     | .....                     | 1.92                 | 0                         | 10                           | 13    | 14         | 3      | w.                           |                                                                                                                           |
| Trenton.....                                | Mercer.....     | 190             | 54                      | 65.6                         | -3.9                      | 90      | 14    | 47     | 17    | 28                   | 2.46                     | -1.03                     | 0.90                 | 0                         | 13                           | 7     | 13         | 10     | sw.                          |                                                                                                                           |
| Tuckerton.....                              | Ocean.....      | 23              | 33                      | 67.8 <sup>b</sup>            | -0.6                      | 93      | 30    | 41     | 17†   | 32                   | 2.77                     | -1.06                     | 0.70                 | 0                         | 11                           | 17    | 10         | 3      | e.                           |                                                                                                                           |
| Vineland.....                               | Cumberland..... | 109             | 57                      | 68.0                         | -3.2                      | 93      | 14    | 45     | 17    | 31                   | 2.70                     | -0.87                     | 0.58                 | 0                         | 12                           | 14    | 11         | 5      | sw.                          |                                                                                                                           |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 68.0                         | -3.4                      | 90      | 14    | 52     | 17    | 26                   | 2.81                     | -0.49                     | 1.47                 | 0                         | 12                           | 7     | 10         | 13     | sw.                          | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....                     |                 |                 |                         | 66.0                         | -3.2                      | 93      | 14†   | 33     | 20†   | 48                   | 2.68                     | -1.06                     | 1.92                 | 0                         | 11                           | 13    | 9          | 8      | sw.                          |                                                                                                                           |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Asbury Park.....                            | Monmouth.....   | 22              | 37                      | 63.4 <sup>d</sup>            | -4.0                      | 88      | 30    | 37     | 4     | 27                   | 1.91                     | -1.71                     | .....                | 0                         | 14                           | 15    | 10         | 5      | nw.                          | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                            |
| Atlantic City.....                          | Atlantic.....   | 16              | 53                      | 61.9                         | -1.7                      | 91      | 30    | 50     | 5     | 32                   | 1.29                     | -1.74                     | 0.55                 | 0                         | 11                           | 10    | 10         | 10     | s.                           |                                                                                                                           |
| Cape May City.....                          | Cape May.....   | 17              | 42                      | 68.6                         | +0.9                      | 97      | 30    | 51     | 17    | 29                   | 2.00                     | -1.04                     | 0.63                 | 0                         | 9                            | 14    | 11         | 5      | s.                           |                                                                                                                           |
| Sandy Hook.....                             | Monmouth.....   | 22              | 28                      | 61.6                         | -3.2                      | 85      | 30    | 51     | 4     | 25                   | 1.85                     | -2.11                     | 0.70                 | 0                         | 14                           | 10    | 10         | 10     | sw.                          |                                                                                                                           |
| Means and extremes.....                     |                 |                 |                         | 65.4                         | -2.0                      | 97      | 30    | 37     | 4     | 32                   | 1.76                     | -1.65                     | 0.70                 | 0                         | 12                           | 12    | 10         | 8      | s.                           |                                                                                                                           |
| For the State.....                          |                 |                 |                         | 61.9                         | -3.6                      | 97      | 30    | 31     | 20    | 48                   | 2.60                     | -1.10                     | 1.96                 | 0                         | 11                           | 12    | 9          | 9      | sw.                          |                                                                                                                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



## Daily Precipitation for June, 1926

| Stations                                   | Drainage Basin  | Day of month |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |    |     |    |     |      |      |     |     |     |     |    |    |      |      | Total |
|--------------------------------------------|-----------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----|-----|----|-----|------|------|-----|-----|-----|-----|----|----|------|------|-------|
|                                            |                 | 1            | 2    | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14   | 15  | 16  | 17  | 18 | 19  | 20 | 21  | 22   | 23   | 24  | 25  | 26  | 27  | 28 | 29 | 30   | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |    |     |    |     |      |      |     |     |     |     |    |    |      |      |       |
| Belvidere.....                             | Delaware.....   | .61          |      | .23 |     | T.  | .05 | .35 | .05 |     |     | .25 |     | .02 | .38  |     |     | T.  |    |     |    | T.  | .42  | T.   | .08 | .10 |     |     |    | T. |      | 2.54 |       |
| Charlotteburg.....                         | Passaic.....    | .45          | .35  |     |     |     |     | .15 |     |     |     | .40 |     | *   | .45  |     |     |     |    |     |    |     | .12  | .68  | .16 | .05 |     |     |    |    |      | 2.84 |       |
| Chulvers Lake.....                         | Delaware.....   | 1.82         | .04  | .07 |     |     |     | .26 | .07 |     | T.  | .26 | .07 | .06 | .21  |     |     |     |    |     |    | .01 | .38  | .32  | .15 | .07 |     |     |    | T. |      | 3.79 |       |
| Dover.....                                 | Passaic.....    | .34          | .33  |     |     |     | .01 | .39 |     |     |     | .32 |     | *   | 1.54 |     |     | .04 |    |     |    | *   | .37  | .99  | .06 |     |     |     |    |    |      | 4.45 |       |
| Layton.....                                | Delaware.....   | .34          | *    | .31 |     | T.  |     | .02 | .27 |     |     | .28 |     | .31 | .13  | .06 |     |     |    |     |    |     | .30  | .15  | .35 | .01 | .06 |     |    |    |      | 2.59 |       |
| Newton.....                                | Delaware.....   | .55          |      | .64 | .02 |     | .01 | .40 | .06 |     | .02 | .36 | .01 |     | .50  |     | T.  |     |    |     |    | .37 |      | .60  | .20 | .11 |     |     |    |    |      | 3.85 |       |
| Phillipsburg.....                          | do.....         | .55          | .17  |     |     | .04 | T.  | .24 | T.  | .06 | .06 | .06 |     | .04 | .94  |     |     |     |    |     |    | .34 | .02  | .41  | .20 | .41 |     |     |    | T. |      | 2.87 |       |
| Sussex.....                                | Hudson.....     | .03          | 1.96 | .35 |     |     |     | .28 | .05 |     |     | .20 | .06 | .16 | .33  |     |     |     |    |     |    |     | .35  | .16  | .41 | .08 | .06 |     |    |    |      | 4.48 |       |
| <i>The Red Sand-stone Plain.</i>           |                 |              |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |    |     |    |     |      |      |     |     |     |     |    |    |      |      |       |
| Bergen Point**.....                        | Coast.....      | .24          | .01  |     | T.  | .07 |     | .14 | .07 | T.  | .12 |     | .17 |     | .09  |     |     |     |    |     |    | .50 | 1.91 | T.   |     |     | .01 | T.  | T. |    |      | 2.33 |       |
| Boonton   .....                            | Passaic.....    | .06          | .23  | .31 |     | T.  |     | .63 | T.  |     | T.  |     | .26 |     | .86  | .01 |     |     |    | T.  |    |     | T    | .37  | .01 | T.  | .35 |     |    | T. |      | 3.09 |       |
| Chatham  .....                             | do.....         | .68          | .19  |     |     | .08 | .01 |     | .15 | T.  | T.  |     | .27 |     | .20  | T.  |     |     |    | T.  |    |     | .10  | .39  |     | T.  | .07 |     |    | T. |      | 2.14 |       |
| Elizabeth.....                             | Coast.....      | .38          | .08  |     |     | .10 | T.  | .16 | T.  |     | .10 |     | .18 |     | .13  |     |     | T.  |    |     |    | .62 | 1.43 | .10  |     | .02 |     |     |    | T. |      | 3.30 |       |
| Flemington.....                            | Raritan.....    | .72          |      | .15 | T.  | .03 |     | .21 | .02 | T.  | T.  | .09 | .09 | .09 | .21  | .01 |     |     |    |     |    | .18 | .75  |      | T.  | .05 |     |     |    |    |      | 2.51 |       |
| Highwood.....                              | Hackensack..... | .28          |      | .22 |     | .08 |     | .14 |     |     | T.  |     | .13 |     | .00  | .05 |     |     |    | T.  |    | T   | .34  | T.   |     | .10 |     |     |    | T. |      | 1.40 |       |
| Jersey City.....                           | Coast.....      | .18          | .02  |     |     | .03 |     | .10 | .02 |     | T.  |     | .24 |     | .02  | .05 |     | T.  | T  |     |    | .48 | 1.30 | .04  |     | T.  | .10 |     |    | T. |      | 2.58 |       |
| Lambertville.....                          | Delaware.....   | 1.06         |      | .08 | T.  | .08 |     | .18 | .05 | .01 | T.  |     | .08 |     | .06  | .20 | .03 |     |    |     |    | .22 | 1.04 | .03  | .02 | T.  | .06 |     |    | T. |      | 3.20 |       |
| Little Falls.    .....                     | Passaic.....    | .07          | .30  | .23 |     | .05 | T.  | .16 |     |     |     |     | .23 |     | .32  |     |     |     |    |     |    | T.  | .32  | .01  |     | T.  | .06 |     |    |    |      | 1.69 |       |
| New Brunswick.....                         | Raritan.....    | T.           | .28  | .16 |     | .08 |     | .17 | .04 | .03 | T.  |     | .08 | .03 | .11  |     |     |     |    |     |    | .02 | 1.41 |      |     | .23 | .06 |     |    |    |      | 2.70 |       |
| New Milford.**.....                        | Hackensack..... | .27          | .26  |     |     | .03 |     | .16 |     |     |     |     | .13 |     | .05  | .25 |     |     |    |     |    | .31 |      |      | .02 |     |     |     |    | T. |      | 1.48 |       |
| Paterson.....                              | Passaic.....    | .09          | .22  | .28 | .04 |     | .28 | T.  |     |     |     | .21 |     | T.  | .31  |     |     | T.  |    |     |    | T   | .29  | .03  | .01 |     |     |     |    | T. |      | 1.76 |       |
| Plainfield.....                            | Raritan.....    | .45          | .10  |     |     | .04 |     | .18 | T.  | T.  | .09 |     | .11 |     | .02  | .18 |     |     |    | .07 |    | .07 | 1.48 | T.   | .02 | .04 | .01 |     |    | T. |      | 2.86 |       |
| Ridgefield.....                            | Hackensack..... | .39          | .19  |     |     | .08 |     | .20 |     |     | T.  | .21 |     | .12 |      | .10 |     |     | T. |     |    | .03 | .28  |      | T.  | .50 |     |     | T. |    | 2.10 |      |       |
| Somerville.....                            | Raritan.....    | .05          | .54  | .08 |     | .04 |     |     |     | T.  | T.  | .12 |     | .22 |      | .22 |     |     |    |     |    | .10 | 1.21 |      | .05 | .08 |     |     |    | T. |      | 2.49 |       |
| South Orange.....                          | Rahway.....     | .02          | .37  | .14 |     | .02 |     | .26 |     |     |     | \$  |     | T.  | \$   | .14 |     |     |    |     |    | .14 | .51  |      |     | .45 | .02 |     |    | T. |      | \$   |       |
| Verona.....                                | Passaic.....    | .33          | .29  |     |     | .04 |     | .11 |     |     | .01 | .27 |     | .15 | .41  |     |     |     |    |     |    | .06 | .31  |      |     | .06 |     |     |    |    |      | 2.04 |       |
| Woodcliff Lake**.....                      | Hackensack..... | .29          | .07  | .03 |     |     |     | .29 |     |     |     | .15 |     | .05 | .29  |     |     |     |    |     |    | .21 | .20  | .03  | .34 |     |     |     |    | T. |      | 1.95 |       |
| New York, N. Y***.....                     | Coast.....      | .16          | .02  | T.  |     | .02 |     | .11 | .01 | T.  |     | .22 |     | .01 | .05  |     |     | T.  | T. |     |    | .42 | 1.33 | .03  | .09 |     |     |     |    | T. |      | 2.47 |       |
| <i>The Southern Interior.</i>              |                 |              |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |    |     |    |     |      |      |     |     |     |     |    |    |      |      |       |
| Belleplain.....                            | Tuckahoe.....   | .10          |      |     | .01 | .35 |     | .05 | .01 |     |     | .02 | .05 |     | .15  |     |     |     |    |     |    | .23 | .45  |      |     | .53 |     |     |    |    |      | 1.95 |       |
| Bridgeton.....                             | Coast.....      | .33          |      |     | .05 | .46 |     | .36 | .04 |     |     |     | T.  |     | .25  |     |     |     |    |     |    | .81 | .41  |      | .08 | .09 |     |     |    |    |      | 2.88 |       |
| Burlington.....                            | Delaware.....   | .11          | .21  | .01 | T.  | .04 |     | .08 | .29 | T.  |     | T.  | T.  |     | .31  | .02 |     |     |    |     |    | .06 | .71  |      | .10 | T.  | .36 |     |    |    |      | 2.30 |       |
| Clayton.....                               | Delaware.....   | *            |      |     | *   | .70 |     | .25 |     |     |     |     |     | *   |      |     |     |     |    |     |    | .25 | .60  |      |     | .10 | .15 |     |    |    |      | 2.05 |       |
| Hammonton.....                             | Mullica.....    |              |      |     |     |     |     |     |     |     |     |     |     |     | \$   |     |     |     |    |     |    | .21 | .73  | .08  |     | .11 |     |     |    |    |      | \$   |       |
| Hightstown.....                            | Raritan.....    | .37          | T    | .07 |     | .03 |     | .11 | .37 |     |     | .02 | T   |     | .20  | .19 | T   |     |    |     |    | T   | 1.10 | T    |     | T.  | .11 |     |    |    |      | 2.57 |       |
| Imlaystown.....                            | Delaware.....   |              |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |    |     |    |     | 1.40 |      | .30 | .03 |     |     |    |    |      | \$   |       |
| Indian Mills.....                          | Mullica.....    | .35          |      |     | .08 | .18 |     | .26 | .15 |     |     | T.  |     | .55 | .08  |     |     |     |    |     |    | .85 | 1.51 | .58  | T.  | .14 |     |     |    |    |      | 4.73 |       |
| Lakewood.....                              | Metedeconk..... | .28          |      | .04 | .03 | .10 | .02 | .17 | .04 |     |     | .02 | .02 | .17 | .23  |     |     |     |    |     |    | .70 | .58  |      | .20 | .50 |     |     |    |    |      | 3.10 |       |
| Moorestown.....                            | Delaware.....   | .55          |      |     | T.  | .05 |     | .07 | .18 |     |     | T   |     | .53 |      |     |     |     |    |     |    | .27 | 1.33 | .05  |     | .02 | .18 |     |    |    |      | 3.23 |       |
| Northfield.....                            | Coast.....      | .02          | .01  |     |     | .33 | .06 | .17 |     |     |     |     | .07 |     | .10  |     |     |     |    |     |    | .50 |      |      | .33 |     |     |     |    |    |      | 1.59 |       |
| Pleasantville   .....                      | Coast.....      |              | .04  | T.  |     | .33 | .05 |     | .27 |     |     |     | .03 |     | .12  | T.  | T   |     |    |     |    | .10 | .69  |      | .43 |     |     |     |    |    |      | 2.06 |       |
| Riverton   .....                           | Delaware.....   |              | .18  | T.  |     | .05 |     | .07 | .10 | .40 |     |     | T.  |     | .32  | .02 |     |     |    |     |    |     | .18  | 1.10 | .07 | T   |     | .31 |    |    |      | 2.80 |       |
| Runyon.....                                | Coast.....      | .06          | .32  | .02 |     | .05 |     | .10 | .18 | .12 |     | .05 |     |     |      |     |     |     |    |     |    |     | 1.92 |      | T   | *   |     |     |    |    |      | 2.94 |       |
| Trenton***.....                            | Delaware.....   | .34          | .02  | .05 | T.  | .04 |     | .21 | .31 |     | T   |     | .03 | T.  | .13  | .16 |     |     | T. |     |    | .02 | .88  | .04  |     | .23 | T.  |     |    |    |      | 2.46 |       |
| Tuckerton.....                             | Coast.....      | *            | .27  | .28 | .02 | .46 | .05 | .03 | .45 |     |     |     |     |     | .10  |     |     |     |    |     |    |     | .70  | .19  |     | .22 |     |     |    |    |      | 2.77 |       |
| Vineland.....                              | Maurice.....    | .12          | .30  | .02 | .03 | .32 |     | .35 | .05 |     |     |     | .03 |     | .07  |     |     |     |    |     |    | .58 | .51  |      |     | .32 |     |     |    |    |      | 2.70 |       |
| Phila., Pa***.....                         | Delaware.....   | .11          | T.   |     | .02 | .02 |     | .08 | .21 |     |     | T   |     | .46 | .03  |     |     |     |    |     |    | .24 | 1.26 | .18  | T.  | .19 | .01 |     |    |    |      | 2.81 |       |
| <i>The Sea Coast.</i>                      |                 |              |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |    |     |    |     |      |      |     |     |     |     |    |    |      |      |       |
| Asbury Park.....                           | Coast.....      | .19          |      | .09 | .03 | .05 | .04 | .21 | .23 |     | T   |     | .08 |     | .14  | .05 |     |     |    |     |    | *   | .75  |      |     | .05 |     |     |    |    |      | 1.91 |       |
| Atlantic City***.....                      | do.....         | .03          | T    |     | T.  | .39 | .03 | .08 | T.  |     |     | .01 | .01 | .03 |      |     | T.  |     |    | T.  |    | .02 | .53  | T.   |     | .13 | .03 |     |    |    |      | 1.29 |       |
| Cape May City.....                         | do.....         | .17          |      |     | .02 | .29 | .04 | .03 |     |     |     | .10 |     |     | .12  |     |     |     |    |     |    | .63 | .60  |      |     |     |     |     |    |    |      | 2.00 |       |
| Sandy Hook***.....                         | do.....         | .10          | .12  | .03 | T.  | .09 |     | .13 | .23 | .02 | .05 | .11 |     | .01 | .16  |     |     | T.  |    |     |    | .06 | .67  | T    |     | .07 |     |     |    |    |      | 1.85 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

### MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |       | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|-------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |       | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date  |                                        |                                           |                                         |               |
| Atlantic City.....    | 29.93        | 30.25   | 21   | 29.56  | 15   | 15.4            | 40             | ne.       | 15    | 74                                     | 68                                        | 78                                      | 61            |
| New York, N. Y.....   | 29.92        | 30.27   | 17   | 29.52  | 15   | 14.8            | 76             | nw        | 2     | 69                                     | 55                                        | 65                                      | 62            |
| Philadelphia, Pa..... | 29.92        | 30.28   | 17   | 29.55  | 15   | 8.3             | 27             | sw.       | 1     | 71                                     | 59                                        | 69                                      | 62            |
| Ridgefield.....       | 29.92        | 30.28   | 17   | 29.52  | 15   | .....           | .....          | .....     | ..... | .....                                  | .....                                     | .....                                   | .....         |
| Sandy Hook.....       | 29.92        | 30.28   | 21   | 29.52  | 15   | 12.9            | 55             | nw.       | 2     | 73                                     | 62                                        | 73                                      | 65            |
| Trenton.....          | 29.92        | 30.26   | 21   | 29.54  | 15   | 9.8             | 46             | nw        | 8     | 72                                     | 64                                        | 70                                      | 62            |
| Verona.....           | 29.94        | 30.27   | 17   | 29.51  | 15   | 4.9             | 22             | s.        | 2     | 79*                                    | .....                                     | 69                                      | .....         |

\* 6 a. m.



## Daily Temperatures for June, 1926

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31                | Mean              |                   |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                       | Maximum | 78 | 81 | 66 | 63 | 59 | 66 | 65 | 79 | 77 | 80 | 82 | 72 | 82 | 85 | 83 | 66 | 78 | 74 | 76 | 81 | 78 | 75 | 85 | 86 | 78 | 78 | 84 | 88 | 89 | 77.0 <sup>a</sup> |                   |                   |
|                                      | Minimum | 61 | 55 | 51 | 41 | 47 | 48 | 51 | 46 | 51 | 50 | 49 | 50 | 57 | 57 | 66 | 55 | 44 | 56 | 55 | 42 | 44 | 62 | 52 | 55 | 54 | 57 | 54 | 49 | 55 | 64                | 52.6              |                   |
| Charlotteburg.....                   | Maximum | 75 | 80 | 70 | 63 | 34 | 52 | 52 | 69 | 75 | 71 | 84 | 75 | 79 | 80 | 81 | 75 | 67 | 77 | 70 | 73 | 72 | 76 | 68 | 82 | 81 | 76 | 74 | 79 | 84 | 84                | 75.4 <sup>b</sup> |                   |
|                                      | Minimum | 55 | 53 | 49 | 32 | 34 | 52 | 52 | 45 | 43 | 44 | 51 | 55 | 59 | 56 | 48 | 34 | 50 | 51 | 36 | 32 | 54 | 52 | 50 | 46 | 50 | 51 | 40 | 49 | 64 | 74.7 <sup>b</sup> |                   |                   |
| Dover.....                           | Maximum | 74 | 81 | 68 | 63 | 56 | 64 | 63 | 77 | 76 | 79 | 80 | 69 | 81 | 79 | 83 | 71 | 65 | 77 | 70 | 72 | 71 | 77 | 67 | 82 | 82 | 74 | 78 | 82 | 85 | 87                | 74.4              |                   |
|                                      | Minimum | 58 | 56 | 46 | 38 | 38 | 49 | 51 | 44 | 52 | 49 | 47 | 46 | 53 | 59 | 52 | 41 | 53 | 51 | 39 | 39 | 58 | 57 | 54 | 51 | 55 | 53 | 54 | 54 | 63 | 50.8 <sup>b</sup> |                   |                   |
| Layton.....                          | Maximum | 78 | 79 | 61 | 64 | 60 | 66 | 65 | 74 | 73 | 78 | 78 | 67 | 80 | 75 | 78 | 65 | 68 | 76 | 70 | 74 | 75 | 79 | 71 | 81 | 81 | 75 | 76 | 81 | 85 | 85                | 73.9              |                   |
|                                      | Minimum | 58 | 50 | 48 | 33 | 38 | 43 | 51 | 43 | 47 | 45 | 40 | 39 | 54 | 51 | 65 | 50 | 42 | 54 | 48 | 31 | 37 | 58 | 52 | 52 | 56 | 50 | 46 | 51 | 64 | 48.3              |                   |                   |
| Newton.....                          | Maximum | 78 | 79 | 62 | 64 | 64 | 66 | 60 | 76 | 74 | 74 | 78 | 68 | 80 | 80 | 76 | 63 | 68 | 76 | 71 | 72 | 75 | 78 | 68 | 82 | 81 | 76 | 76 | 80 | 84 | 85                | 73.7              |                   |
|                                      | Minimum | 58 | 53 | 48 | 39 | 42 | 47 | 45 | 50 | 56 | 54 | 50 | 53 | 60 | 56 | 50 | 43 | 53 | 53 | 40 | 43 | 57 | 55 | 53 | 50 | 55 | 54 | 56 | 55 | 65 | 51.5 <sup>a</sup> |                   |                   |
| Phillipsburg.....                    | Maximum | 77 | 82 | 65 | 64 | 58 | 66 | 68 | 85 | 82 | 85 | 82 | 75 | 87 | 90 | 83 | 61 | 69 | 80 | 71 | 76 | 83 | 78 | 70 | 87 | 88 | 84 | 77 | 82 | 87 | 88                | 77.2 <sup>b</sup> |                   |
|                                      | Minimum | 61 | 54 | 52 | 40 | 50 | 50 | 50 | 47 | 50 | 50 | 50 | 52 | 58 | 59 | 60 | 51 | 46 | 57 | 54 | 44 | 53 | 56 | 57 | 56 | 56 | 59 | 56 | 52 | 55 | 61                | 53.6 <sup>b</sup> |                   |
| Sussex.....                          | Maximum | 78 | 80 | 77 | 65 | 61 | 68 | 65 | 77 | 75 | 77 | 77 | 77 | 81 | 75 | 81 | 66 | 70 | 78 | 76 | 74 | 76 | 77 | 73 | 83 | 83 | 76 | 76 | 83 | 85 | 86                | 75.6              |                   |
|                                      | Minimum | 58 | 50 | 49 | 35 | 40 | 44 | 50 | 47 | 45 | 47 | 43 | 41 | 54 | 51 | 62 | 51 | 39 | 54 | 52 | 34 | 39 | 58 | 52 | 51 | 51 | 53 | 50 | 44 | 52 | 65                | 48.7              |                   |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                    | Maximum | 67 | 84 | 75 | 67 | 59 | 67 | 67 | 77 | 77 | 78 | 80 | 71 | 80 | 80 | 65 | 67 | 79 | 75 | 70 | 71 | 83 | 83 | 81 | 78 | 79 | 87 | 87 | 87 | 87 | 87                | 75.8 <sup>b</sup> |                   |
|                                      | Minimum | 59 | 56 | 47 | 52 | 47 | 54 | 52 | 55 | 57 | 57 | 55 | 57 | 57 | 57 | 54 | 49 | 56 | 52 | 51 | 50 | 59 | 58 | 58 | 58 | 63 | 60 | 66 | 67 | 62 | 62                | 56.1 <sup>a</sup> |                   |
| Boonton§§.....                       | Maximum | 77 | 79 | 63 | 63 | 65 | 68 | 65 | 75 | 76 | 79 | 78 | 70 | 82 | 82 | 83 | 68 | 69 | 75 | 74 | 73 | 77 | 68 | 84 | 82 | 78 | 77 | 81 | 83 | 87 | 87                | 75.2 <sup>a</sup> |                   |
|                                      | Minimum | 49 | 49 | 53 | 34 | 42 | 49 | 51 | 45 | 46 | 48 | 45 | 52 | 52 | 60 | 51 | 38 | 52 | 55 | 38 | 37 | 54 | 58 | 51 | 48 | 53 | 57 | 50 | 52 | 61 | 49.2              |                   |                   |
| Elizabeth.....                       | Maximum | 75 | 85 | 80 | 68 | 62 | 69 | 69 | 80 | 79 | 81 | 82 | 78 | 82 | 81 | 89 | 77 | 70 | 81 | 79 | 73 | 75 | 85 | 72 | 84 | 86 | 85 | 79 | 84 | 88 | 90                | 78.9              |                   |
|                                      | Minimum | 58 | 58 | 55 | 40 | 50 | 52 | 53 | 48 | 52 | 51 | 51 | 51 | 55 | 57 | 62 | 54 | 42 | 56 | 56 | 42 | 44 | 57 | 58 | 56 | 54 | 60 | 58 | 53 | 54 | 64                | 53.4              |                   |
| Flemington.....                      | Maximum | 80 | 82 | 75 | 62 | 59 | 65 | 68 | 76 | 80 | 83 | 81 | 76 | 82 | 85 | 83 | 73 | 68 | 80 | 76 | 76 | 78 | 81 | 75 | 83 | 84 | 80 | 78 | 82 | 85 | 90                | 77.5              |                   |
|                                      | Minimum | 60 | 57 | 56 | 41 | 51 | 51 | 52 | 46 | 52 | 50 | 51 | 52 | 57 | 60 | 64 | 54 | 44 | 54 | 57 | 43 | 42 | 60 | 57 | 55 | 53 | 59 | 58 | 54 | 56 | 64                | 53.7              |                   |
| Highwood.....                        | Maximum | 70 | 82 | 69 | 63 | 58 | 65 | 64 | 76 | 76 | 79 | 78 | 67 | 77 | 77 | 81 | 65 | 70 | 77 | 72 | 72 | 72 | 72 | 72 | 70 | 80 | 84 | 75 | 77 | 83 | 87                | 74.4              |                   |
|                                      | Minimum | 57 | 55 | 53 | 39 | 47 | 51 | 53 | 57 | 52 | 50 | 45 | 44 | 55 | 53 | 59 | 53 | 40 | 56 | 57 | 40 | 42 | 60 | 58 | 54 | 53 | 58 | 55 | 50 | 57 | 66                | 72.3              |                   |
| Jersey City.....                     | Maximum | 72 | 81 | 66 | 64 | 59 | 66 | 66 | 75 | 78 | 80 | 79 | 72 | 80 | 82 | 87 | 65 | 66 | 78 | 72 | 72 | 70 | 81 | 71 | 81 | 83 | 75 | 78 | 80 | 85 | 87                | 75.0              |                   |
|                                      | Minimum | 57 | 59 | 55 | 48 | 52 | 53 | 52 | 53 | 57 | 57 | 57 | 57 | 58 | 62 | 58 | 54 | 53 | 57 | 58 | 52 | 55 | 60 | 71 | 81 | 83 | 75 | 78 | 80 | 85 | 87                | 75.0              |                   |
| Lambertville.....                    | Maximum | 81 | 80 | 72 | 61 | 56 | 64 | 63 | 74 | 75 | 78 | 78 | 74 | 80 | 86 | 82 | 65 | 67 | 79 | 70 | 74 | 77 | 81 | 69 | 81 | 80 | 79 | 75 | 81 | 80 | 86                | 74.9              |                   |
|                                      | Minimum | 60 | 58 | 54 | 44 | 50 | 51 | 50 | 50 | 55 | 54 | 53 | 54 | 56 | 61 | 63 | 52 | 44 | 53 | 52 | 44 | 43 | 57 | 56 | 55 | 56 | 60 | 57 | 53 | 60 | 62                | 53.9              |                   |
| Little Falls§§.....                  | Maximum | 75 | 83 | 63 | 64 | 64 | 64 | 68 | 74 | 79 | 81 | 80 | 71 | 85 | 81 | 86 | 69 | 69 | 79 | 74 | 75 | 72 | 80 | 69 | 86 | 86 | 79 | 72 | 84 | 87 | 89                | 76.3              |                   |
|                                      | Minimum | 54 | 53 | 53 | 39 | 46 | 51 | 52 | 47 | 59 | 49 | 47 | 46 | 53 | 55 | 61 | 53 | 41 | 55 | 57 | 40 | 41 | 59 | 60 | 86 | 86 | 79 | 72 | 84 | 87 | 89                | 76.3              |                   |
| New Brunswick.....                   | Maximum | 73 | 82 | 79 | 62 | 57 | 65 | 61 | 76 | 77 | 80 | 79 | 77 | 81 | 81 | 85 | 83 | 73 | 68 | 78 | 77 | 71 | 74 | 83 | 73 | 81 | 83 | 82 | 78 | 80 | 85                | 87                | 76.4              |
|                                      | Minimum | 57 | 59 | 57 | 42 | 50 | 51 | 51 | 53 | 50 | 48 | 51 | 56 | 59 | 62 | 54 | 44 | 53 | 59 | 43 | 44 | 55 | 56 | 56 | 56 | 51 | 58 | 55 | 56 | 65 | 65                | 75.7              |                   |
| Paterson.....                        | Maximum | 74 | 85 | 77 | 66 | 61 | 68 | 65 | 81 | 81 | 83 | 83 | 75 | 83 | 81 | 87 | 73 | 72 | 81 | 77 | 74 | 76 | 82 | 75 | 85 | 88 | 80 | 80 | 85 | 91 | 91                | 78.7              |                   |
|                                      | Minimum | 61 | 57 | 55 | 44 | 51 | 53 | 52 | 58 | 53 | 54 | 56 | 53 | 60 | 61 | 54 | 46 | 57 | 58 | 47 | 47 | 60 | 59 | 57 | 56 | 60 | 60 | 60 | 61 | 68 | 71                | 78.7              |                   |
| Plainfield.....                      | Maximum | 75 | 82 | 67 | 65 | 58 | 67 | 67 | 77 | 77 | 78 | 81 | 80 | 73 | 81 | 81 | 86 | 65 | 68 | 78 | 72 | 74 | 71 | 82 | 70 | 82 | 84 | 76 | 79 | 81 | 85                | 87                | 75.7              |
|                                      | Minimum | 55 | 56 | 38 | 48 | 51 | 50 | 46 | 50 | 48 | 47 | 47 | 45 | 55 | 56 | 62 | 53 | 39 | 53 | 55 | 41 | 39 | 54 | 57 | 54 | 52 | 56 | 55 | 50 | 54 | 61                | 51.3 <sup>a</sup> |                   |
| Ridgefield.....                      | Maximum | 71 | 81 | 65 | 64 | 57 | 66 | 66 | 77 | 77 | 79 | 79 | 70 | 78 | 78 | 84 | 67 | 68 | 77 | 72 | 70 | 70 | 81 | 67 | 81 | 82 | 75 | 76 | 80 | 85 | 87                | 74.3              |                   |
|                                      | Minimum | 57 | 60 | 48 | 43 | 50 | 51 | 52 | 52 | 54 | 55 | 51 | 50 | 56 | 57 | 54 | 51 | 44 | 57 | 57 | 44 | 45 | 60 | 59 | 56 | 56 | 64 | 58 | 54 | 59 | 63                | 53.9              |                   |
| Somerville.....                      | Maximum | 79 | 84 | 83 | 66 | 62 | 64 | 69 | 80 | 78 | 82 | 80 | 79 | 84 | 85 | 87 | 75 | 68 | 80 | 78 | 74 | 77 | 85 | 75 | 84 | 85 | 83 | 79 | 84 | 87 | 89                | 78.8              |                   |
|                                      | Minimum | 58 | 51 | 57 | 37 | 48 | 47 | 52 | 47 | 46 | 46 | 43 | 45 | 67 | 58 | 74 | 54 | 40 | 53 | 54 | 40 | 39 | 75 | 55 | 51 | 59 | 56 | 50 | 60 | 59 | 59                | 50.8 <sup>a</sup> |                   |
| South Orange.....                    | Maximum | 72 | 80 | 76 | 68 | 65 | 64 | 63 | 74 | 74 | 75 | 76 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72                | 72                | 74.2 <sup>a</sup> |
|                                      | Minimum | 58 | 51 | 57 | 37 | 48 | 47 | 52 | 47 | 46 | 46 | 43 | 45 | 67 | 58 | 74 | 54 | 40 | 53 | 54 | 40 | 39 | 75 | 55 | 51 | 59 | 56 | 50 | 60 | 59 | 59                | 50.8 <sup>a</sup> |                   |
| Verona.....                          | Maximum | 73 | 79 | 62 | 63 | 56 | 65 | 64 | 75 | 74 | 78 | 76 | 67 | 79 | 77 | 82 | 62 | 64 | 75 | 69 | 69 | 69 | 78 | 67 | 80 | 81 | 76 | 74 | 78 | 83 | 85                | 72.7              |                   |
|                                      | Minimum | 57 | 59 | 47 | 42 | 49 | 51 | 52 | 50 | 56 | 56 | 54 | 53 | 65 | 57 | 52 | 43 | 54 | 53 | 47 | 45 | 57 | 57 | 55 | 55 | 60 | 57 |    |    |    |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI.

JULY, 1926.

No. 7

### GENERAL SUMMARY.

Temperatures approached more nearly to normal warmth during July than in any month since February, for the State as a whole, although there were some stations whose mean temperatures were slightly above normal for the month. The warm and cool periods alternated with fairly uniform regularity. On the 21st and 22d readings were 100° or above at many stations, while from the 12th to the 16th there were many minima under 60°. There was a general lack of rain well into the 2d week, but thereafter rains were generous both in volume and frequency, so that the month closed with a moderate excess, except that in extreme northwestern sections there was a lack of rain which was keenly felt, approaching the seriousness of drought. This season, up to the time of increased rain during this month, has been one of the worst for forest fires, although these have not been entirely resultant from weather conditions. Thunder was heard in some part of the State on 19 days, and there were many instances of fire or other damage from lightning. Some stations reported as many as 15 rainy days, and rain has occurred at some time during nearly every week end since the latter part of May. During a seriously damaging wind storm at Sea Girt on the 24th it was reported, but not officially verified, that the wind reached 105 miles per hour.

Storm warnings were displayed along the coast on the 15th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 73.0°, which was 0.6° below normal. The highest temperature was 105° at Phillipsburg on the 22d, and the lowest, 40°, at Belleplain on the 12th. The greatest daily range of temperature was 43° at Layton on the 12th. The highest monthly mean temperature was 76.0° at Burlington and Clayton, and the lowest, 69.4° at Charlotteburg.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.7°; Red Sandstone Plain, -2.0°; Southern Interior, -1.4°; Sea Coast, -0.6°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 47 stations, was 5.46 inches, which was 0.82 inch above normal.

The greatest monthly precipitation was 8.51 inches, at Atlantic City, and the least, 1.29 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 3.51 inches at Chatham on the 25th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 12, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -6.65 inches; Red Sandstone Plain, -5.29 inches; Southern Interior, -3.87 inches; Sea Coast, -2.91 inches.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 10 miles per hour, which was about normal. The highest velocity, sustained for 5 consecutive minutes, was 56 miles per hour from the north at Atlantic City and Sandy Hook on the 18th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 16, which was 3 more than normal; partly cloudy, 7, or 4 less than normal; cloudy, 8, or 1 more than normal. The per cent of possible sunshine was 64, which was 1 per cent above normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 0.5 foot, and the highest 1.4 feet on the 1st. At Trenton the mean stage was 0.2 foot, which was 1.1 feet below normal. The highest stage, 0.6 foot, occurred on the 4th.

The mean atmospheric pressure, reduced to sea level, was 29.97 inches, which was 0.01 inch below normal. The highest reading was 30.32 inches on the 26th and the lowest, 29.52 inches on the 10th, both at Verona.

Thunderstorms occurred on the 3d to the 7th, inclusive, 10th, 11th, 13th, 14th, 15th, 18th, 19th, 20th, 22d to 25th, inclusive, 29th and 30th. Solar halos were observed on the 13th and 28th. Dense fog was noted on the 2d, 3d, 23d, 25th, and 29th.

Lightning struck the U. S. Naval ammunition depot at Lake Denmark near Dover, N. J., causing an explosion which killed many people and a damage of \$90,000,000. A severe wind storm on July 24th, did local damage along the shore between Asbury Park and Sea Girt, causing an estimated damage of \$100,000 to buildings.

Hail, with scattered unimportant damage, was reported at several points in north and central sections on the 18th.

### ERRATA.

Annual, 1924; Bergen Point, December precipitation 2.58, departure -1.80, instead of 2.51, departure -1.87. Total annual precipitation 41.41, instead of 41.34; departure -8.25 instead of -8.32. Number of days with 0.01 inch or more 94 instead of 93.

### COMPARATIVE DATA FOR JULY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 75.2        | 100     | 44     | 3.50          | 7.28     | 1.29  | .....       | .....         | .....  | .....                  |
| 1886..... | 73.0        | 98      | 48     | 4.91          | 7.95     | 2.98  | .....       | .....         | .....  | 11                     |
| 1887..... | 77.1        | 102     | 54     | 7.67          | 15.29    | 1.95  | .....       | .....         | .....  | 8                      |
| 1888..... | 71.1        | 95      | 45     | 3.50          | 7.03     | 1.25  | .....       | .....         | 8      | 9                      |
| 1889..... | 73.4        | 95      | 48     | 10.19         | 18.58    | 4.66  | .....       | .....         | 13     | 14                     |
| 1890..... | 72.5        | 101     | 39     | 5.62          | 7.55     | 3.60  | 12          | 11            | 8      | 9                      |
| 1891..... | 70.1        | 95      | 43     | 5.30          | 9.41     | 3.03  | 10          | 11            | 10     | 12                     |
| 1892..... | 74.3        | 105     | 44     | 4.03          | 7.96     | 2.38  | 12          | 14            | 5      | 8                      |
| 1893..... | 73.9        | 102     | 40     | 2.72          | 4.63     | 1.26  | 14          | 13            | 4      | 8                      |
| 1894..... | 75.7        | 106     | 44     | 1.66          | 5.00     | 0.15  | 14          | 12            | 5      | 6                      |
| 1895..... | 70.9        | 99      | 41     | 4.26          | 7.73     | 1.53  | 12          | 12            | 7      | 10                     |
| 1896..... | 75.0        | 98      | 47     | 5.50          | 13.29    | 2.45  | 13          | 10            | 8      | 13                     |
| 1897..... | 74.1        | 102     | 50     | 11.42         | 20.80    | 6.11  | 10          | 11            | 10     | 15                     |
| 1898..... | 75.3        | 107     | 38     | 4.96          | 11.72    | 2.23  | 11          | 13            | 7      | 10                     |
| 1899..... | 74.7        | 98      | 38     | 5.75          | 9.02     | 3.34  | 13          | 11            | 7      | 11                     |
| 1900..... | 75.9        | 104     | 42     | 4.74          | 7.21     | 1.11  | 15          | 12            | 4      | 11                     |
| 1901..... | 77.3        | 107     | 45     | 5.87          | 10.92    | 1.89  | 9           | 13            | 9      | 14                     |
| 1902..... | 73.0        | 100     | 43     | 4.78          | 9.92     | 1.83  | 10          | 12            | 9      | 13                     |
| 1903..... | 73.3        | 100     | 38     | 5.51          | 10.14    | 3.08  | 16          | 10            | 5      | 12                     |
| 1904..... | 72.3        | 98      | 42     | 4.87          | 8.06     | 2.41  | 13          | 10            | 8      | 13                     |
| 1905..... | 74.4        | 102     | 42     | 4.06          | 8.19     | 1.67  | 12          | 13            | 6      | 12                     |
| 1906..... | 72.8        | 94      | 46     | 5.58          | 13.25    | 3.44  | 11          | 14            | 6      | 12                     |
| 1907..... | 73.6        | 96      | 40     | 2.62          | 6.42     | 0.95  | 8           | 12            | 11     | 8                      |
| 1908..... | 75.6        | 106     | 42     | 4.70          | 8.12     | 1.97  | 12          | 13            | 6      | 9                      |
| 1909..... | 71.6        | 99      | 36     | 2.12          | 4.03     | 1.03  | 14          | 14            | 3      | 5                      |
| 1910..... | 75.3        | 99      | 42     | 1.36          | 5.33     | 0.22  | 12          | 12            | 7      | 8                      |
| 1911..... | 76.0        | 104     | 42     | 3.64          | 6.46     | 2.06  | 12          | 12            | 7      | 9                      |
| 1912..... | 73.7        | 100     | 36     | 3.86          | 9.91     | 1.01  | 14          | 10            | 7      | 9                      |
| 1913..... | 74.4        | 100     | 41     | 2.52          | 4.72     | 1.50  | 20          | 9             | 2      | 8                      |
| 1914..... | 71.5        | 97      | 40     | 6.05          | 8.57     | 1.94  | 9           | 11            | 11     | 15                     |
| 1915..... | 72.8        | 98      | 44     | 5.31          | 11.06    | 2.23  | 10          | 13            | 8      | 14                     |
| 1916..... | 74.4        | 97      | 45     | 5.40          | 9.01     | 3.15  | 11          | 9             | 11     | 12                     |
| 1917..... | 74.2        | 104     | 46     | 4.83          | 7.93     | 2.38  | 10          | 11            | 10     | 12                     |
| 1918..... | 72.2        | 104     | 39     | 3.93          | 13.60    | 1.20  | 17          | 9             | 5      | 8                      |
| 1919..... | 73.5        | 103     | 43     | 8.39          | 14.14    | 4.45  | 14          | 7             | 10     | 14                     |
| 1920..... | 71.7        | 96      | 42     | 5.76          | 16.25    | 1.20  | 17          | 10            | 4      | 11                     |
| 1921..... | 76.5        | 99      | 43     | 3.62          | 7.36     | 1.66  | 14          | 9             | 8      | 10                     |
| 1922..... | 73.0        | 98      | 44     | 5.79          | 9.26     | 2.29  | 13          | 9             | 9      | 13                     |
| 1923..... | 71.9        | 102     | 40     | 3.88          | 6.28     | 0.93  | 15          | 8             | 8      | 11                     |
| 1924..... | 71.6        | 98      | 41     | 2.59          | 5.08     | 0.84  | 19          | 8             | 4      | 6                      |
| 1925..... | 72.0        | 99      | 39     | 7.37          | 10.09    | 4.03  | 15          | 9             | 7      | 13                     |
| 1926..... | 73.0        | 105     | 40     | 5.46          | 8.51     | 1.29  | 16          | 7             | 8      | 12                     |



## Climatological Data for July, 1926

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |                 |        |       |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Prevailing direction of wind | Observers                                                                                                                 |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-----------------|--------|-------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date            | Lowest | Date  | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy | Cloudy |                              |                                                                                                                           |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |                 |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Belvidere.....                              | Warren.....     | 289             | 35                      | 73.5 <sup>a</sup>            | +0.3                      | 100     | 22              | 48     | 12    | 35                   | 4.27                     | -0.71                     | 1.03                 | 0                         | 12                           | 20    | 3          | 8      | .....                        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                          | Passaic.....    | 719             | 34                      | 69.4 <sup>†</sup>            | -0.6                      | 97      | 21 <sup>†</sup> | .....  | ..... | .....                | 4.39                     | -0.44                     | 1.15                 | 0                         | 10                           | 13    | 4          | 14     | w.                           |                                                                                                                           |
| Culvers Lake.....                           | Sussex.....     | 848             | 25                      | .....                        | .....                     | .....   | .....           | 45     | 12    | .....                | 3.36                     | -1.21                     | 1.05                 | 0                         | 14                           | 20    | 6          | 5      | s.                           |                                                                                                                           |
| Dover.....                                  | Morris.....     | 600             | 42                      | 71.6 <sup>a</sup>            | +0.2                      | 98      | 22              | 48     | 12    | 34                   | 7.32                     | +2.05                     | 2.97                 | 0                         | 12                           | 8     | 12         | 11     | .....                        |                                                                                                                           |
| Layton.....                                 | Sussex.....     | 480             | 25                      | 71.2 <sup>a</sup>            | +0.3                      | 103     | 22              | 41     | 12    | 43                   | 1.29                     | -2.97                     | 0.51                 | 0                         | 8                            | 18    | 4          | 9      | s.                           | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                     |
| Newton.....                                 | Warren.....     | 769             | 42                      | 72.2                         | -0.3                      | 99      | 22              | 47     | 12    | 33                   | 3.70                     | -1.26                     | 0.75                 | 0                         | 12                           | 18    | 6          | 7      | sw.                          |                                                                                                                           |
| Phillipsburg.....                           | Warren.....     | 363             | 43                      | 73.6 <sup>a</sup>            | -0.5                      | 105     | 22              | 49     | 12    | 40                   | 4.38                     | -0.47                     | 0.97                 | 0                         | 13                           | 13    | 10         | 8      | .....                        |                                                                                                                           |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 71.8 <sup>b</sup>            | -0.3                      | 100     | 22              | 42     | 12    | 40                   | 1.63                     | -2.77                     | 0.47                 | 0                         | 10                           | 12    | 13         | 6      | .....                        |                                                                                                                           |
| Means and extremes...                       | .....           | .....           | .....                   | 71.9                         | -0.1                      | 105     | 22              | 41     | 12    | 43                   | 3.79                     | -0.97                     | 2.97                 | 0                         | 11                           | 15    | 7          | 9      | s.                           | .....                                                                                                                     |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |                 |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Bergen Point.....                           | Hudson.....     | 37              | 29                      | 74.6                         | +0.6                      | 103     | 22              | 55     | 12    | 36                   | 4.86                     | +0.25                     | 1.34                 | 0                         | 11                           | 10    | 17         | 4      | nw.                          | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                 |
| Boonton.....                                | Morris.....     | 400             | 36                      | 70.8                         | -1.7                      | 95      | 10 <sup>†</sup> | 45     | 12    | 36                   | 6.92                     | +2.02                     | 2.46                 | 0                         | 13                           | 19    | 0          | 12     | sw.                          |                                                                                                                           |
| Chatham.....                                | Morris.....     | 185             | 22                      | .....                        | .....                     | .....   | .....           | .....  | ..... | .....                | 8.25                     | +3.81                     | 3.51                 | 0                         | 11                           | 21    | 6          | 4      | .....                        |                                                                                                                           |
| Elizabeth.....                              | Union.....      | 45              | 47                      | 75.0 <sup>a</sup>            | -0.3                      | 104     | 22              | 49     | 12    | 35                   | 5.65                     | +0.49                     | 1.62                 | 0                         | 12                           | 15    | 7          | 9      | sw.                          |                                                                                                                           |
| Flemington.....                             | Hunterdon.....  | 140             | 40                      | 74.2                         | -0.4                      | 102     | 21              | 51     | 12    | 37                   | 4.42                     | -0.80                     | 0.93                 | 0                         | 14                           | 18    | 7          | 6      | sw.                          | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                          |
| Highwood.....                               | Bergen.....     | 90              | 38                      | 71.3                         | -1.0                      | 98      | 22              | 48     | 12    | 35                   | 5.07                     | +0.12                     | 1.10                 | 0                         | 10                           | 12    | 8          | 11     | sw.                          |                                                                                                                           |
| Jersey City.....                            | Hudson.....     | 10              | 28                      | 74.5                         | -1.6                      | 102     | 22              | 55     | 16    | 31                   | 6.13                     | +1.69                     | 1.35                 | 0                         | 12                           | 10    | 13         | 8      | sw.                          |                                                                                                                           |
| Lambertville.....                           | Hunterdon.....  | 370             | 39                      | 73.0                         | -1.3                      | 99      | 22              | 51     | 12    | 30                   | 6.19                     | +1.37                     | 1.16                 | 0                         | 15                           | 18    | 6          | 7      | sw.                          |                                                                                                                           |
| Little Falls.....                           | Passaic.....    | 180             | 23                      | 72.9                         | -0.9                      | 102     | 22              | 49     | 12    | 36                   | 5.59                     | +1.20                     | 1.04                 | 0                         | 11                           | 15    | 9          | 7      | nw.                          | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.      |
| New Brunswick.....                          | Middlesex.....  | 110             | 73                      | 73.7                         | -0.3                      | 100     | 22              | 52     | 12    | 31                   | 4.62                     | -0.42                     | 1.38                 | 0                         | 13                           | 18    | 7          | 6      | s.                           |                                                                                                                           |
| New Milford.....                            | Bergen.....     | 9               | 8                       | .....                        | .....                     | .....   | .....           | .....  | ..... | .....                | 4.10                     | .....                     | 0.75                 | 0                         | 12                           | ..... | .....      | .....  | .....                        |                                                                                                                           |
| Paterson.....                               | Passaic.....    | 80              | 55                      | 75.4                         | +1.0                      | 102     | 22              | 53     | 12    | 30                   | 5.35                     | +0.33                     | 0.87                 | 0                         | 13                           | 16    | 5          | 10     | ne.                          |                                                                                                                           |
| Plainfield.....                             | Union.....      | 120             | 38                      | 72.1                         | -1.9                      | 101     | 22              | 47     | 12    | 36                   | 5.53                     | -0.30                     | 1.77                 | 0                         | 10                           | 10    | 13         | 8      | sw.                          | .....                                                                                                                     |
| Ridgefield.....                             | Bergen.....     | 80              | 9                       | 72.8                         | .....                     | 98      | 22              | 51     | 12    | 30                   | 5.48                     | .....                     | 1.29                 | 0                         | 11                           | 13    | 14         | 4      | nw.                          | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach.<br>Luther Davis.<br>Hackensack Water Co.                            |
| Somerville.....                             | Somerset.....   | 70              | 43                      | 73.8                         | -0.3                      | 102     | 22              | 47     | 12    | 37                   | 5.12                     | +0.01                     | 1.24                 | 0                         | 11                           | 23    | 2          | 6      | w.                           |                                                                                                                           |
| South Orange.....                           | Essex.....      | 200             | 56                      | 71.8 <sup>a</sup>            | -1.4                      | 93      | 22              | 54     | 12    | .....                | 7.82                     | +2.81                     | 2.90                 | 0                         | 12                           | 17    | 5          | 9      | sw.                          |                                                                                                                           |
| Verona.....                                 | Essex.....      | 490             | .....                   | 71.4                         | .....                     | 95      | 22              | 52     | 12    | 26                   | 8.26                     | .....                     | 2.59                 | 0                         | 13                           | 11    | 8          | 12     | sw.                          |                                                                                                                           |
| Woodcliff Lake.....                         | Bergen.....     | 100             | 8                       | .....                        | .....                     | .....   | .....           | .....  | ..... | .....                | 3.82                     | .....                     | 0.89                 | 0                         | 12                           | ..... | .....      | .....  | .....                        | Hackensack Water Co.                                                                                                      |
| New York, N. Y.....                         | .....           | 365             | 56                      | 73.2                         | -0.6                      | 97      | 22              | 55     | 16    | 27                   | 7.47                     | +2.93                     | 3.08                 | 0                         | 13                           | 10    | 8          | 13     | s.                           | U. S. Weather Bureau.                                                                                                     |
| Means and extremes...                       | .....           | .....           | .....                   | 73.2                         | -0.7                      | 104     | 22              | 45     | 12    | 37                   | 5.73                     | +0.90                     | 3.51                 | 0                         | 12                           | 15    | 8          | 8      | sw.                          | .....                                                                                                                     |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |                 |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Belleplain.....                             | Cape May.....   | 30              | 32                      | 70.9 <sup>b</sup>            | -2.9                      | 96      | 22              | 40     | 12    | 38                   | 8.41                     | +4.30                     | 2.10                 | 0                         | 15                           | 20    | 6          | 5      | w.                           | Thomas J. Dureli.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                     |
| Bridgeton.....                              | Cumberland..... | 90              | 45                      | 74.2                         | -2.5                      | 100     | 22              | 50     | 12    | 33                   | 5.23                     | +0.74                     | 1.41                 | 0                         | 13                           | 17    | 4          | 10     | s.                           |                                                                                                                           |
| Burlington.....                             | Burlington..... | 12              | 40                      | 76.0                         | +1.0                      | 102     | 22              | 56     | 2     | 35                   | 4.94                     | +0.20                     | 1.56                 | 0                         | 13                           | 14    | 8          | 9      | nw.                          |                                                                                                                           |
| Clayton.....                                | Gloucester..... | 130             | 30                      | 76.0 <sup>a</sup>            | +1.0                      | 102     | 22              | 50     | 12    | .....                | 5.35                     | +0.50                     | 1.20                 | 0                         | 11                           | 24    | 2          | 5      | e.                           |                                                                                                                           |
| Hammononton.....                            | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | .....           | .....  | ..... | .....                | 4.91                     | +0.20                     | 1.28                 | 0                         | 12                           | 16    | 10         | 5      | s.                           | R. E. Montgomery.<br>Harvey M. Grover.<br>Frank M. Lawrence.<br>James M. Armstrong.                                       |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | .....                        | .....                     | 100     | 22              | .....  | ..... | .....                | 4.10                     | -0.89                     | 1.00                 | 0                         | 12                           | 14    | 9          | 8      | .....                        |                                                                                                                           |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 73.6 <sup>b</sup>            | -1.1                      | 101     | 22              | 47     | 12    | .....                | 4.88                     | +0.12                     | 1.29                 | 0                         | 15                           | 17    | 7          | 7      | sw.                          |                                                                                                                           |
| Indian Mills.....                           | Burlington..... | 76              | 37                      | 73.4                         | -1.3                      | 104     | 22              | 47     | 12    | 40                   | 7.13                     | +2.47                     | 1.98                 | 0                         | 12                           | 13    | 10         | 8      | sw.                          |                                                                                                                           |
| Lakewood.....                               | Ocean.....      | 54              | 22                      | 72.8                         | 0.0                       | 99      | 10              | 48     | 12    | 33                   | 5.43                     | +0.58                     | 1.10                 | 0                         | 12                           | 17    | 2          | 12     | sw.                          | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                       |
| Moorestown.....                             | Burlington..... | 75              | 63                      | 74.0                         | -0.7                      | 100     | 22              | 51     | 12    | 36                   | 6.10                     | +1.42                     | 1.77                 | 0                         | 14                           | 19    | 5          | 7      | sw.                          |                                                                                                                           |
| Northfield.....                             | Atlantic.....   | 25              | 19                      | .....                        | .....                     | .....   | .....           | .....  | ..... | .....                | 6.73                     | +3.13                     | 2.57                 | 0                         | 13                           | ..... | .....      | .....  | .....                        |                                                                                                                           |
| Pleasantville.....                          | Atlantic.....   | 26              | 28                      | 71.7 <sup>a</sup>            | .....                     | 98      | 21              | 48     | 12    | 31                   | 6.62                     | +2.64                     | 2.10                 | 0                         | 14                           | 17    | 7          | 7      | sw.                          |                                                                                                                           |
| Riverton.....                               | Burlington..... | .....           | .....                   | 72.6                         | .....                     | 99      | 22              | 51     | 12    | 32                   | 5.83                     | .....                     | 1.36                 | 0                         | 16                           | 16    | 7          | 8      | .....                        | Japanese Bettie Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes |
| Runyon.....                                 | Middlesex.....  | 18              | 2                       | 72.4 <sup>a</sup>            | .....                     | 102     | 22              | 46     | 12    | 40                   | 3.96                     | .....                     | 0.73                 | 0                         | 11                           | 16    | 10         | 5      | w.                           |                                                                                                                           |
| Trenton.....                                | Mercer.....     | 190             | 54                      | 74.0                         | -0.5                      | 101     | 22              | 56     | 12    | 29                   | 5.15                     | +0.38                     | 1.35                 | 0                         | 16                           | 11    | 11         | 9      | sw.                          |                                                                                                                           |
| Tuckerton.....                              | Ocean.....      | 23              | 33                      | .....                        | .....                     | 100     | 22              | 50     | 28    | .....                | 5.69                     | +1.81                     | 2.05                 | 0                         | 12                           | 19    | 8          | 4      | e.                           |                                                                                                                           |
| Vineland.....                               | Cumberland..... | 109             | 57                      | 75.4                         | -1.0                      | 100     | 22              | 51     | 12    | 31                   | 5.44                     | +0.87                     | 1.62                 | 0                         | 12                           | 17    | 6          | 8      | sw.                          | .....                                                                                                                     |
| Philadelphia, Pa.....                       | .....           | 117             | 55                      | 75.7                         | -0.5                      | 100     | 22              | 57     | 15    | 29                   | 8.40                     | +4.07                     | 3.18                 | 0                         | 14                           | 10    | 9          | 12     | sw.                          | U. S. Weather Bureau.                                                                                                     |
| Means and extremes...                       | .....           | .....           | .....                   | 73.6                         | -0.8                      | 104     | 22              | 40     | 12    | 40                   | 5.64                     | +1.23                     | 2.57                 | 0                         | 13                           | 17    | 7          | 7      | sw.                          | .....                                                                                                                     |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |                 |        |       |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                           |
| Asbury Park.....                            | Monmouth.....   | 22              | 37                      | 71.4 <sup>d</sup>            | -1.0                      | 98      | 21              | 54     | 12    | .....                | 6.48                     | +1.94                     | 1.15                 | 0                         | 14                           | 14    | 9          | 8      | sw.                          | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                            |
| Atlantic City.....                          | Atlantic.....   | 16              | 53                      | 72.4                         | +0.3                      | 100     | 21              | 58     | 12    | 30                   | 8.51                     | +4.73                     | 3.35                 | 0                         | 14                           | 13    | 9          | 9      | s.                           |                                                                                                                           |
| Cape May City.....                          | Cape May.....   | 17              | 42                      | 74.4                         | +1.0                      | 98      | 21              | 58     | 27    | 26                   | 6.60                     | +2.82                     | 1.76                 | 0                         | 12                           | ..... | .....      | .....  | s.                           |                                                                                                                           |
| Sandy Hook.....                             | Monmouth.....   | 22              | 28                      | 72.7                         | -1.0                      | 99      | 22              | 57     | 16    | 25                   | 5.47                     | +0.68                     | 1.91                 | 0                         | 13                           | 10    | 11         | 10     | s.                           |                                                                                                                           |
| Means and extremes...                       | .....           | .....           | .....                   | 72.7                         | -0.2                      | 100     | 21              | 54     | 12    | 30                   | 6.76                     | +2.54                     | 3.35                 | 0                         | 13                           | 12    | 10         | 9      | s.                           | .....                                                                                                                     |
| For the State.....                          | .....           | .....           | .....                   | 73.0                         | -0.6                      | 105     | 22              | 40     | 12    | 43                   | 5.46                     | +0.82                     | 3.51                 | 0                         | 12                           | 16    | 7          | 8      | sw.                          | .....                                                                                                                     |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



## Daily Precipitation for July, 1926

| Stations                                   | Drainage Basin  | Day of month |      |      |     |      |     |     |   |   |      |     |    |      |      |      |      |     |      |      |     |     |     |     |      |      |      |    |     |     |      |      | Total |      |
|--------------------------------------------|-----------------|--------------|------|------|-----|------|-----|-----|---|---|------|-----|----|------|------|------|------|-----|------|------|-----|-----|-----|-----|------|------|------|----|-----|-----|------|------|-------|------|
|                                            |                 | 1            | 2    | 3    | 4   | 5    | 6   | 7   | 8 | 9 | 10   | 11  | 12 | 13   | 14   | 15   | 16   | 17  | 18   | 19   | 20  | 21  | 22  | 23  | 24   | 25   | 26   | 27 | 28  | 29  | 30   | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |      |     |      |     |     |   |   |      |     |    |      |      |      |      |     |      |      |     |     |     |     |      |      |      |    |     |     |      |      |       |      |
| Belvidere.....                             | Delaware.....   |              |      |      |     | .05  | .75 |     |   |   | .75  |     |    |      | .12  | .09  | .45  |     |      | 1.03 |     | .12 |     |     | .30  | .14  | .13  |    |     |     | .34  |      |       | 4.27 |
| Charlotteburg.....                         | Passaic.....    |              |      |      |     | .35  |     |     |   |   | 1.03 |     |    | .18  | .06  | *    | .41  |     | 1.15 |      |     |     |     | .12 | .25  | .31  |      |    |     | .53 |      |      | 4.33  |      |
| Culvers Lake.....                          | Delaware.....   |              | .01  |      |     | .05  |     |     |   |   | .08  |     |    | .01  | T    | .08  | .10  |     | 1.05 | .02  |     |     | .71 | .71 | .04  | .10  |      |    |     | .38 | .02  |      | 3.36  |      |
| Dover.....                                 | Passaic.....    |              |      |      |     | .95  |     |     |   |   | .76  |     |    | *    | .25  | .40  |      |     | 1.40 |      |     |     |     | .17 | *    | 2.97 |      |    |     | *   | .42  |      | 7.32  |      |
| Layton.....                                | Delaware.....   |              |      |      |     | .08  |     |     |   |   | T    |     |    | .01  | .05  | .02  | .04  |     | .35  |      |     |     |     | .51 |      |      |      |    |     | .23 |      |      | 1.29  |      |
| Newton.....                                | Delaware.....   |              | T    |      |     | .44  |     |     |   |   | .04  |     |    | .22  |      | .14  | .20  |     | .75  | .01  |     |     |     | .73 | .11  | .06  |      |    |     | .45 | .55  |      | 3.70  |      |
| Phillipsburg.....                          | do.....         |              |      | T    |     | T    | .56 |     |   |   | .23  |     |    | T    | .07  | .77  | .06  |     | .34  |      | .03 |     | T   | .03 | .17  | .37  |      |    | .02 | .97 | .76  | T    | 4.38  |      |
| Sussex.....                                | Hudson.....     |              | T    |      |     |      |     |     |   |   | .02  |     |    | .02  | .04  | .04  | .29  | *   | .33  |      |     |     |     | .47 |      | .02  |      |    |     | .37 | .03  |      | 1.63  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |      |     |      |     |     |   |   |      |     |    |      |      |      |      |     |      |      |     |     |     |     |      |      |      |    |     |     |      |      |       |      |
| Bergen Point**.....                        | Coast.....      |              |      |      | T   | T    | .13 |     |   |   | .04  |     |    | .13  | .21  | .61  | .87  |     | .83  |      |     |     |     | T   | .71  | .29  |      |    |     | .60 | .44  |      | 4.86  |      |
| Boonton   .....                            | Passaic.....    |              |      |      |     | .60  | .14 |     |   |   | .68  |     |    |      | .15  | .06  | .42  | .02 |      | 1.11 |     |     |     | .07 | .67  | 2.46 |      |    |     | .17 | .37  |      | 6.92  |      |
| Chatham  .....                             | do.....         |              | T    |      |     | T    | .52 | .02 |   |   | .34  | T   |    |      | .19  | .11  | .61  |     |      | 1.39 |     |     |     | T   | .83  | 3.51 |      |    |     | .08 | .65  |      | 8.25  |      |
| Elizabeth.....                             | Coast.....      |              |      | T    | T   | .18  |     | .02 |   |   | .21  |     |    |      | .34  | .12  | 1.23 |     |      | .82  |     |     |     | .05 | .45  | .53  |      |    |     | .10 | 1.62 |      | 5.65  |      |
| Flemington.....                            | Raritan.....    |              |      | .09  | .03 | .22  |     |     |   |   | .54  |     |    |      | .14  | .47  | .31  |     | .15  | .18  | T   |     |     | .19 | .48  | .48  |      |    |     | .21 | .93  |      | 4.42  |      |
| Highwood.....                              | Hackensack..... |              |      |      |     | .59  |     |     |   |   | .39  |     |    |      | .36  | .51  | .76  |     | .57  |      |     |     |     | T   | .39  | 1.10 |      |    |     | .16 | .24  |      | 5.07  |      |
| Jersey City.....                           | Coast.....      |              |      | .01  | T   | T    | .20 |     |   |   | .08  | T   |    |      | .25  | .57  | 1.24 |     | .87  |      |     |     |     | .03 | .65  | .75  |      |    |     | .13 | 1.35 |      | 6.13  |      |
| Lambertville.....                          | Delaware.....   |              | .02  | .13  | .02 | .12  |     |     |   |   | .45  |     |    |      | .67  | .79  | .28  |     | .07  | .18  | T   |     |     | .09 | 1.16 | 1.08 |      |    |     | .26 | .87  | T    | 6.19  |      |
| Little Falls.                              | Passaic.....    |              |      |      |     | .58  | .03 |     |   |   | .64  |     |    |      | .36  | .06  | .72  |     |      | 1.02 |     |     |     | .03 | .68  | 1.04 |      |    |     | .08 | .35  |      | 5.59  |      |
| New Brunswick.....                         | Raritan.....    |              |      | T    | .06 |      | .11 |     |   |   | .09  |     |    |      | .68  | .18  | .58  |     | .02  | .45  |     |     |     | .07 | .41  | .48  |      |    |     | .10 | 1.38 |      | 4.62  |      |
| New Milford.**.....                        | Hackensack..... |              |      |      |     | .53  |     |     |   |   | .75  |     |    | .14  | .20  | .26  | .46  |     | .60  |      |     |     |     | .02 | .49  | .35  |      |    |     | .23 | .07  |      | 4.10  |      |
| Paterson.....                              | Passaic.....    |              |      |      |     | .66  |     |     |   |   | .27  | .60 |    |      | .37  | .24  | .54  |     | .57  | .29  |     |     |     | .08 | .75  | .56  |      |    |     | .13 | .29  |      | 5.35  |      |
| Plainfield.....                            | Raritan.....    |              |      |      | T   | T    | .20 |     |   |   | .32  |     |    |      | .22  | .42  | .27  |     | .42  |      | T   |     |     |     | .52  | 1.09 |      |    |     | .30 | 1.77 |      | 5.53  |      |
| Ridgefield.....                            | Hackensack..... |              |      |      | T   | .40  |     |     |   |   | .21  | T   |    | .34  | .23  | .10  | 1.29 |     | .94  |      |     |     |     |     | .33  | 1.03 |      |    |     | .03 | .58  |      | 5.48  |      |
| Somerville.....                            | Raritan.....    |              |      |      | T   | .12  |     |     |   |   | .51  |     |    |      | .18  | .40  | .43  |     | .04  | .48  | T   |     |     | T   | .64  | 1.24 |      |    |     | .16 | .92  |      | 5.12  |      |
| South Orange.....                          | Rahway.....     |              |      |      |     | *    |     |     |   |   | .79  | T   |    |      | .24  | .33  | .70  |     | .04  | 1.48 |     |     |     | .04 | .54  | 2.90 |      |    |     | .12 | .64  |      | 7.82  |      |
| Verona.....                                | Passaic.....    |              |      |      |     | .56  |     |     |   |   | .52  |     |    | .10  | .17  | .55  | .29  |     | 1.29 |      | T   |     |     | T   | .01  | 2.59 | 1.58 |    |     | .01 | .29  | .30  |       | 8.26 |
| Woodcliff Lake**.....                      | Hackensack..... |              |      |      |     | .43  |     |     |   |   | .19  |     |    |      | .10  | .19  | .39  |     | .89  |      |     |     |     | .18 | .10  | .75  | .20  |    |     | .25 | .15  |      | 3.82  |      |
| New York, N. Y***                          | Coast.....      |              |      | .01  | T   | T    | .19 |     |   |   | .07  | T   |    |      | .17  | .86  | 2.34 |     | 1.13 |      |     |     |     | T   | .02  | .86  | .46  |    |     |     | .25  | 1.01 |       | 7.47 |
| <i>The Southern Interior.</i>              |                 |              |      |      |     |      |     |     |   |   |      |     |    |      |      |      |      |     |      |      |     |     |     |     |      |      |      |    |     |     |      |      |       |      |
| Belleplain.....                            | Tuckahoe.....   |              | .20  | .32  | .52 | .05  | .08 |     |   |   | .04  |     |    | 1.15 | 1.04 | 2.10 | 1.65 |     | .79  |      |     |     |     | .02 | .26  |      |      |    |     | .08 | .11  |      | 8.41  |      |
| Bridgeton.....                             | Coast.....      |              | .19  | .18  | .38 | .6   |     |     |   |   | .76  |     |    |      | .35  | .94  | 1.41 |     | T    | .18  | .10 |     |     |     | .07  |      |      |    | .02 | .02 |      | 5.23 |       |      |
| Burlington.....                            | Delaware.....   |              | .01  | .35  | .04 | .20  | T   |     |   |   | .53  |     |    |      | .42  | .31  | 1.56 |     |      | .04  | .02 |     |     | T   | .65  |      |      |    | .09 | .72 | T    | 4.94 |       |      |
| Clayton.....                               | Delaware.....   |              |      | .15  | .20 |      | .95 |     |   |   | .05  |     |    |      | .25  | 1.00 | 1.20 |     |      | .65  |     |     |     |     | .65  |      |      |    |     | .10 | .15  |      | 5.35  |      |
| Hammononton.....                           | Mullica.....    |              | T    |      | .56 | .34  | .75 |     |   |   | .10  |     |    |      | .45  | 1.28 | .36  |     | .75  |      | T   |     |     | .14 | .11  |      |      |    | .05 | .02 | T    | 4.91 |       |      |
| Hightstown.....                            | Raritan.....    |              | .03  | .10  | T   | .16  |     |     |   |   | .51  |     |    |      | 1.00 | .38  | .52  |     | T    | .28  |     |     |     | T   | .51  | .25  |      |    |     | .10 | .26  | T    | 4.10  |      |
| Imlaystown.....                            | Delaware.....   |              | .02  | .20  |     | .47  |     |     |   |   | .50  |     |    |      | .51  | .90  | .42  |     | .03  | .06  |     |     |     | .27 | *    | 1.29 |      |    | .03 | *   | .18  | 4.88 |       |      |
| Indian Mills.....                          | Mullica.....    |              |      | .198 | .04 | .45  |     |     |   |   | .43  |     |    |      | .35  | 1.52 | .43  |     | .50  |      |     |     |     | .60 | .65  |      |      |    | .10 | .08 |      | 7.13 |       |      |
| Lakewood.....                              | Metedeconk..... |              | .03  | .15  | T   | .30  |     |     |   |   | .94  |     |    |      | .50  | 1.10 | .53  |     | .58  |      |     |     | .16 | .20 | .52  |      |      |    | T   | .42 |      | 5.43 |       |      |
| Moorestown.....                            | Delaware.....   |              | .02  | .45  | .17 | .80  |     |     |   |   | .23  |     |    |      | .43  | *    | 1.43 |     | .17  |      | .10 |     |     | *   | 1.77 |      |      |    | .30 | .23 |      | 6.10 |       |      |
| Northfield.....                            | Coast.....      |              | .08  | 1.34 | .27 | .40  | .10 |     |   |   | .02  |     |    |      | .33  | 2.57 | .29  |     | .21  |      |     |     |     | T   | .30  |      |      |    |     | .80 | .02  | 6.73 |       |      |
| Pleasantville                              | Coast.....      |              |      | 1.10 | .05 | .67  | .08 |     |   |   | .03  | T   |    |      | .32  | 2.10 | 1.42 |     | .15  |      |     |     |     | .02 | .31  | .29  |      |    |     | T   | .08  | 6.62 |       |      |
| Riverton   .....                           | Delaware.....   |              | .05  | .37  | .30 | .76  | .01 |     |   |   | .56  |     |    |      | .32  | .25  | 1.36 |     | .20  | .03  |     |     |     | .60 | .60  |      |      |    | .09 | .20 | .13  | 5.83 |       |      |
| Runyon.....                                | Coast.....      |              | .06  |      | .15 |      |     |     |   |   | .25  |     |    |      | .57  | .40  | .58  |     | .44  |      |     |     |     | .16 | .73  |      |      |    | .09 | .53 |      | 3.96 |       |      |
| Trenton**.....                             | Delaware.....   |              | .48  | .01  | .04 | .33  |     |     |   |   | .47  |     |    | .62  | .18  | .97  | .18  |     | .04  |      | T   |     |     | .02 | .74  | .51  |      |    | T   | .32 | .05  | .19  | 5.15  |      |
| Tuckerton.....                             | Coast.....      |              |      | .29  | .05 | 1.14 | .05 |     |   |   | .10  |     |    |      | .35  | 2.05 | .80  |     | .05  | .43  |     |     |     |     | .30  |      |      |    |     | .08 |      | 5.69 |       |      |
| Vineland.....                              | Maurice.....    |              | .16  | .40  |     | .76  | .18 |     |   |   | .10  |     |    |      | .45  | .93  | 1.62 |     | .44  |      |     |     |     |     | .07  |      |      |    | .04 | .29 |      | 5.44 |       |      |
| Phila., Pa***                              | Delaware.....   |              | 1.71 | .42  | .09 | .51  |     |     |   |   | .30  |     |    |      | .47  | 2.96 | .90  |     | .54  |      | .05 |     |     |     | T    | .44  | .69  |    |     | T   | .44  | .02  | T     | 8.40 |
| <i>The Sea Coast.</i>                      |                 |              |      |      |     |      |     |     |   |   |      |     |    |      |      |      |      |     |      |      |     |     |     |     |      |      |      |    |     |     |      |      |       |      |
| Asbury Park ***.....                       | Coast.....      |              | .05  | .15  |     | .51  |     |     |   |   | .45  |     |    |      | .35  | .90  | .90  |     | .02  | .75  |     |     |     | .70 | 1.15 | .35  |      |    | .05 | .15 |      | 6.48 |       |      |
| Atlantic City.....                         | do.....         |              |      | T    | .86 | .21  | .56 | .03 |   |   | .09  | T   |    |      | .34  | .41  | 3.04 | .05 |      | .22  |     |     |     |     | .02  | 1.67 |      |    | T   | .96 | .05  |      | 8.51  |      |
| Cape May City.....                         | do.....         |              |      | 1.76 | .46 |      | .70 |     |   |   | .11  |     |    |      | .82  | .75  | .19  |     | .45  |      | .04 |     |     |     | T    | .79  |      |    | .04 | .49 |      | 6.60 |       |      |
| Sandy Hook**.....                          | do.....         |              |      | .02  |     | .07  |     |     |   |   | .14  | T   |    |      | .42  | .17  | .67  | .70 |      | .48  |     |     |     | .01 | .15  | .65  |      |    |     | .70 | 1.29 |      | 5.47  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |       | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|-------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |       | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date  |                                        |                                           |                                         |               |
| Atlantic City.....    | 29.97        | 30.25   | 17   | 29.64  | 10   | 15.2            | 56             | n.        | 18    | 84                                     | 75                                        | 83                                      | 63            |
| New York, N. Y.....   | 29.97        | 30.28   | 26   | 29.56  | 10   | 12.8            | 64             | nw        | 10    | 73                                     | 57                                        | 70                                      | 67            |
| Philadelphia, Pa..... | 29.98        | 30.26   | 27   | 29.60  | 10   | 7.7             | 34             | ne.       | 15    | 80                                     | 65                                        | 73                                      | 62            |
| Ridgefield.....       | 29.97        | 30.28   | 26   | 29.55  | 10   | .....           | .....          | .....     | ..... | .....                                  | .....                                     | .....                                   | .....         |
| Sandy Hook.....       | 29.96        | 30.27   | 26   | 29.56  | 10   | 12.1            | 56             | n.        | 18    | 78                                     | 63                                        | 78                                      | 66            |
| Trenton.....          | 29.97        | 30.27   | 26   | 29.57  | 10   | 8.5             | 38             | ne.       | 15    | 78                                     | 60                                        | 71                                      | 64            |
| Verona.....           | 29.98        | 30.32   | 26   | 29.52  | 10   | 4.3             | 27             | nw.       | 10    | 78*                                    | .....                                     | 67                                      | .....         |



## Daily Temperatures for July, 1926

| Stations                             | 1             | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31                | Mean              |                   |
|--------------------------------------|---------------|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |               |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                       | Maximum ...   | 87 | 85 | 95 | 84 | 75 | 86 | 88 | 91 | 98  | 77  | 83 | 87 | 79 | 72 | 85 | 88 | 87 | 88 | 87  | 99  | 100 | 88  | 89 | 88 | 85 | 85 | 85 | 77 | 89 | 83                | 86.3 <sup>a</sup> |                   |
|                                      | Minimum ..... | 52 | 56 | 65 | 66 | 58 | 59 | 55 | 62 | 73  | 63  | 48 | 57 | 56 | 56 | 57 | 54 | 62 | 56 | 61  | 71  | 66  | 66  | 68 | 64 | 58 | 56 | 61 | 66 | 67 | 63                | 60.7 <sup>a</sup> |                   |
| Charlotteburg.....                   | Maximum ...   | 83 | 80 | 90 | 82 | 78 | 82 | 82 | 89 | 94  | 96  | 75 | 78 | 82 | 74 | 68 | 81 | 83 | 80 | 84  | 85  | 97  | 97  | 86 | 83 | 79 | 81 | 82 | 80 | 75 | 84                | 79                | 82.9              |
|                                      | Minimum ..... | 45 | 48 | 56 | 54 | 51 | 58 | 65 | 46 | 58  | 75  | 43 | 52 | 54 | 52 | 51 | 52 | 51 | 52 | 51  | 52  | 68  | 59  | 66 | 64 | 58 | 55 | 45 | 60 | 65 | 57                | 55.9 <sup>d</sup> |                   |
| Dover.....                           | Maximum ...   | 86 | 79 | 90 | 81 | 74 | 84 | 85 | 86 | 94  | 96  | 84 | 80 | 82 | 71 | 69 | 83 | 85 | 88 | 88  | 98  | 98  | 86  | 88 | 85 | 77 | 81 | 78 | 72 | 86 | 78                | 83.7 <sup>a</sup> |                   |
|                                      | Minimum ..... | 52 | 55 | 61 | 61 | 51 | 59 | 64 | 54 | 64  | 72  | 58 | 48 | 56 | 57 | 56 | 53 | 57 | 56 | 53  | 56  | 58  | 73  | 65 | 68 | 65 | 58 | 52 | 58 | 63 | 66                | 63                | 59.6 <sup>a</sup> |
| Layton.....                          | Maximum ...   | 85 | 80 | 91 | 80 | 84 | 85 | 88 | 96 | 80  | 84  | 84 | 84 | 75 | 70 | 83 | 88 | 86 | 86 | 90  | 101 | 103 | 85  | 86 | 86 | 83 | 86 | 84 | 73 | 83 | 81                | 85.5 <sup>a</sup> |                   |
|                                      | Minimum ..... | 45 | 50 | 60 | 58 | 49 | 60 | 60 | 49 | 58  | 70  | 63 | 41 | 52 | 58 | 53 | 56 | 47 | 60 | 52  | 56  | 67  | 61  | 62 | 65 | 64 | 53 | 51 | 58 | 68 | 59                | 56.8 <sup>a</sup> |                   |
| Newton.....                          | Maximum ...   | 84 | 78 | 91 | 80 | 77 | 80 | 84 | 84 | 93  | 95  | 76 | 80 | 84 | 80 | 83 | 85 | 85 | 85 | 85  | 97  | 99  | 85  | 87 | 84 | 82 | 83 | 82 | 74 | 83 | 80                | 84.3 <sup>a</sup> |                   |
|                                      | Minimum ..... | 54 | 55 | 60 | 64 | 54 | 58 | 65 | 55 | 62  | 74  | 62 | 47 | 57 | 52 | 58 | 60 | 57 | 58 | 55  | 62  | 72  | 69  | 67 | 67 | 64 | 55 | 59 | 62 | 64 | 62                | 60                | 84.3 <sup>a</sup> |
| Phillipsburg.....                    | Maximum ...   | 87 | 84 | 90 | 82 | 74 | 85 | 90 | 99 | 102 | 83  | 85 | 72 | 71 | 83 | 86 | 87 | 89 | 80 | 101 | 105 | 91  | 93  | 88 | 79 | 82 | 82 | 75 | 85 | 77 | 85.8 <sup>b</sup> |                   |                   |
|                                      | Minimum ..... | 54 | 57 | 66 | 65 | 62 | 61 | 63 | 56 | 62  | 71  | 56 | 49 | 57 | 58 | 59 | 55 | 61 | 59 | 62  | 69  | 65  | 70  | 69 | 65 | 60 | 56 | 61 | 66 | 67 | 64                | 61                | 61.4 <sup>b</sup> |
| Sussex.....                          | Maximum ...   | 86 | 84 | 92 | 85 | 80 | 84 | 86 | 95 | 96  | 79  | 82 | 83 | 74 | 71 | 86 | 85 | 86 | 88 | 88  | 99  | 100 | 86  | 87 | 86 | 84 | 86 | 84 | 76 | 86 | 79                | 85.3 <sup>b</sup> |                   |
|                                      | Minimum ..... | 46 | 49 | 61 | 60 | 49 | 60 | 60 | 50 | 61  | 70  | 62 | 42 | 52 | 54 | 55 | 49 | 61 | 54 | 54  | 56  | 72  | 63  | 68 | 66 | 65 | 58 | 50 | 58 | 59 | 67                | 60                | 58.2 <sup>b</sup> |
| The Red Sandstone Plain.             |               |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                    | Maximum ...   | 86 | 81 | 88 | 82 | 77 | 80 | 87 | 88 | 97  | 101 | 76 | 82 | 86 | 76 | 66 | 80 | 86 | 88 | 86  | 89  | 99  | 103 | 87 | 85 | 85 | 78 | 80 | 77 | 76 | 86                | 76                | 84.3              |
|                                      | Minimum ..... | 65 | 61 | 66 | 68 | 61 | 62 | 68 | 66 | 66  | 75  | 67 | 55 | 62 | 57 | 59 | 59 | 66 | 66 | 66  | 69  | 69  | 67  | 67 | 69 | 66 | 66 | 60 | 62 | 68 | 71                | 62                | 64.8 <sup>a</sup> |
| Boonton§§.....                       | Maximum ...   | 85 | 83 | 89 | 83 | 79 | 81 | 84 | 84 | 92  | 95  | 74 | 78 | 83 | 75 | 69 | 84 | 84 | 84 | 87  | 85  | 95  | 93  | 87 | 88 | 84 | 82 | 84 | 80 | 73 | 87                | 76                | 83.5              |
|                                      | Minimum ..... | 49 | 52 | 58 | 62 | 49 | 58 | 59 | 54 | 57  | 68  | 65 | 45 | 53 | 54 | 55 | 55 | 50 | 62 | 53  | 57  | 68  | 65  | 67 | 65 | 58 | 50 | 55 | 61 | 64 | 63                | 58.0              |                   |
| Elizabeth.....                       | Maximum ...   | 88 | 85 | 91 | 82 | 79 | 83 | 89 | 89 | 98  | 100 | 83 | 89 | 85 | 76 | 84 | 89 | 88 | 90 | 89  | 99  | 104 | 91  | 88 | 86 | 85 | 81 | 77 | 89 | 84 | 87.6 <sup>b</sup> |                   |                   |
|                                      | Minimum ..... | 54 | 56 | 65 | 68 | 57 | 60 | 65 | 57 | 63  | 72  | 66 | 49 | 59 | 58 | 61 | 56 | 59 | 63 | 57  | 62  | 69  | 69  | 72 | 70 | 66 | 63 | 55 | 58 | 66 | 69                | 62                | 62.3              |
| Flemington.....                      | Maximum ...   | 90 | 89 | 92 | 85 | 70 | 82 | 87 | 87 | 96  | 98  | 78 | 84 | 84 | 72 | 68 | 85 | 85 | 88 | 89  | 88  | 102 | 101 | 91 | 87 | 85 | 83 | 86 | 85 | 78 | 82                | 82                | 85.8              |
|                                      | Minimum ..... | 53 | 56 | 66 | 69 | 60 | 62 | 68 | 57 | 62  | 68  | 57 | 61 | 60 | 59 | 58 | 58 | 55 | 63 | 59  | 63  | 72  | 69  | 70 | 68 | 67 | 63 | 55 | 60 | 66 | 68                | 66                | 62.6              |
| Highwood.....                        | Maximum ...   | 86 | 79 | 83 | 81 | 75 | 79 | 84 | 85 | 95  | 97  | 75 | 82 | 79 | 72 | 66 | 79 | 85 | 82 | 84  | 86  | 96  | 98  | 85 | 82 | 82 | 78 | 80 | 77 | 73 | 82                | 75                | 82.0              |
|                                      | Minimum ..... | 51 | 55 | 63 | 63 | 52 | 61 | 64 | 54 | 61  | 73  | 65 | 48 | 58 | 56 | 57 | 56 | 57 | 62 | 55  | 60  | 71  | 65  | 70 | 68 | 65 | 60 | 54 | 58 | 64 | 69                | 65                | 60.6              |
| Jersey City.....                     | Maximum ...   | 85 | 84 | 88 | 83 | 74 | 80 | 85 | 86 | 96  | 99  | 76 | 81 | 85 | 73 | 68 | 80 | 86 | 86 | 88  | 87  | 100 | 102 | 90 | 85 | 84 | 78 | 80 | 79 | 74 | 87                | 74                | 84.0              |
|                                      | Minimum ..... | 65 | 65 | 66 | 65 | 60 | 61 | 68 | 66 | 68  | 73  | 63 | 59 | 65 | 58 | 58 | 55 | 63 | 60 | 61  | 67  | 69  | 70  | 73 | 70 | 67 | 65 | 63 | 65 | 67 | 67                | 65                | 65.0              |
| Lambertville.....                    | Maximum ...   | 86 | 87 | 90 | 78 | 68 | 79 | 84 | 86 | 94  | 96  | 76 | 81 | 86 | 67 | 65 | 82 | 83 | 86 | 84  | 86  | 96  | 99  | 90 | 87 | 83 | 77 | 82 | 82 | 79 | 85                | 74                | 83.2              |
|                                      | Minimum ..... | 60 | 61 | 67 | 66 | 59 | 61 | 67 | 58 | 66  | 72  | 57 | 51 | 62 | 58 | 57 | 56 | 57 | 63 | 60  | 65  | 68  | 75  | 69 | 67 | 67 | 60 | 54 | 57 | 66 | 71                | 66                | 65.0              |
| Little Falls§§.....                  | Maximum ...   | 88 | 86 | 86 | 86 | 81 | 82 | 86 | 88 | 96  | 97  | 76 | 82 | 85 | 76 | 68 | 79 | 88 | 87 | 88  | 88  | 98  | 102 | 89 | 86 | 85 | 82 | 84 | 80 | 76 | 88                | 76                | 85.1              |
|                                      | Minimum ..... | 52 | 55 | 63 | 66 | 52 | 60 | 61 | 55 | 62  | 76  | 56 | 49 | 58 | 56 | 59 | 55 | 55 | 66 | 57  | 68  | 70  | 66  | 71 | 70 | 66 | 60 | 54 | 58 | 63 | 66                | 64                | 60.7              |
| New Brunswick.....                   | Maximum ...   | 85 | 85 | 88 | 86 | 71 | 81 | 85 | 86 | 94  | 97  | 85 | 81 | 85 | 83 | 70 | 80 | 84 | 86 | 85  | 86  | 98  | 100 | 97 | 83 | 83 | 80 | 79 | 78 | 76 | 86                | 84                | 80.7              |
|                                      | Minimum ..... | 55 | 55 | 65 | 68 | 60 | 62 | 66 | 57 | 63  | 74  | 67 | 52 | 60 | 58 | 59 | 56 | 60 | 63 | 59  | 65  | 67  | 70  | 70 | 67 | 68 | 64 | 55 | 57 | 65 | 71                | 66                | 62.7              |
| Paterson.....                        | Maximum ...   | 88 | 84 | 90 | 80 | 82 | 88 | 90 | 99 | 101 | 86  | 83 | 86 | 75 | 71 | 83 | 90 | 88 | 87 | 89  | 100 | 102 | 92  | 88 | 87 | 81 | 84 | 81 | 74 | 86 | 83                | 86.6 <sup>a</sup> |                   |
|                                      | Minimum ..... | 58 | 60 | 66 | 67 | 57 | 61 | 68 | 61 | 72  | 75  | 70 | 53 | 62 | 57 | 61 | 57 | 60 | 66 | 59  | 65  | 74  | 73  | 72 | 69 | 66 | 62 | 58 | 61 | 64 | 69                | 67                | 64.2              |
| Plainfield.....                      | Maximum ...   | 85 | 84 | 89 | 82 | 75 | 81 | 86 | 87 | 96  | 99  | 76 | 81 | 86 | 73 | 66 | 81 | 86 | 86 | 87  | 87  | 100 | 101 | 90 | 85 | 84 | 78 | 80 | 79 | 74 | 87                | 73                | 84.0              |
|                                      | Minimum ..... | 50 | 56 | 62 | 55 | 55 | 61 | 62 | 54 | 61  | 71  | 70 | 47 | 56 | 56 | 58 | 55 | 54 | 60 | 56  | 60  | 69  | 65  | 61 | 67 | 65 | 61 | 52 | 56 | 63 | 67                | 64                | 60.2 <sup>a</sup> |
| Ridgefield.....                      | Maximum ...   | 86 | 81 | 85 | 81 | 77 | 80 | 85 | 85 | 95  | 96  | 76 | 81 | 82 | 74 | 68 | 83 | 84 | 85 | 87  | 86  | 96  | 98  | 86 | 83 | 85 | 88 | 80 | 77 | 74 | 86                | 75                | 83.1              |
|                                      | Minimum ..... | 56 | 59 | 66 | 62 | 55 | 61 | 64 | 59 | 66  | 75  | 60 | 51 | 62 | 56 | 59 | 56 | 59 | 62 | 57  | 63  | 70  | 71  | 72 | 70 | 66 | 62 | 56 | 61 | 65 | 70                | 66                | 62.5              |
| Somerville.....                      | Maximum ...   | 88 | 89 | 90 | 86 | 73 | 84 | 89 | 89 | 96  | 99  | 79 | 83 | 87 | 85 | 72 | 85 | 88 | 88 | 89  | 100 | 102 | 96  | 89 | 87 | 80 | 82 | 83 | 76 | 88 | 83                | 86.9              |                   |
|                                      | Minimum ..... | 51 | 52 | 64 | 68 | 58 | 62 | 65 | 54 | 59  | 73  | 66 | 47 | 55 | 59 | 59 | 57 | 51 | 58 | 53  | 59  | 69  | 69  | 71 | 68 | 68 | 60 | 53 | 58 | 65 | 70                | 67                | 60.8              |
| South Orange.....                    | Maximum ...   | 80 | 80 | 83 | 83 | 68 | 65 | 54 | 59 | 73  | 66  | 47 | 55 | 59 | 57 | 51 | 58 | 53 | 59 | 69  | 69  | 71  | 68  | 68 | 60 | 53 | 58 | 65 | 70 | 67 | 60.8              |                   |                   |
|                                      | Minimum ..... | 60 | 61 | 65 | 68 | 60 | 60 | 60 | 60 | 60  | 60  | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60  | 60  | 60  | 60  | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60                | 60                | 60.3 <sup>a</sup> |
| Verona.....                          | Maximum ...   | 81 | 81 | 86 | 81 | 75 | 78 | 82 | 83 | 92  | 94  | 72 | 77 | 82 | 71 | 66 | 78 | 83 | 82 | 82  | 84  | 94  | 95  | 86 | 84 | 82 | 75 | 78 | 76 | 72 | 82                | 80                | 83.3              |
|                                      | Minimum ..... | 56 | 58 | 64 | 61 | 58 | 59 | 65 | 58 | 66  | 72  | 59 | 52 | 60 | 56 | 58 | 54 | 59 | 60 | 58  | 64  | 73  | 73  | 70 | 68 | 66 | 60 | 56 | 59 | 64 | 68                | 65                | 61.9              |
| New York, N. Y.....                  | Maximum ...   | 81 | 82 | 83 | 81 | 71 | 76 | 83 | 82 | 91  | 94  | 75 | 78 | 81 | 72 | 69 | 79 | 83 | 84 | 84  | 96  | 97  | 87  | 82 | 84 | 77 | 79 | 74 | 74 | 83 | 74                | 81.3              |                   |
|                                      | Minimum ..... | 65 | 66 | 66 | 65 | 61 | 61 | 68 | 66 | 68  | 74  | 63 | 59 | 66 | 58 | 58 | 55 | 63 | 59 | 61  | 68  | 69  | 78  | 73 | 70 | 67 | 65 | 63 | 65 | 67 | 67                | 65                | 65.1              |
| The Southern Interior.               |               |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |     |     |     |     |    |    |    |    |    |    |    |                   |                   |                   |
| Belleplain.....                      | Maximum ...   | 85 | 80 | 84 | 88 | 70 | 83 | 85 | 79 | 78  | 94  | 75 | 78 | 78 | 72 | 80 | 83 | 84 | 79 | 91  | 96  | 82  | 77  | 77 | 75 | 75 | 7  |    |    |    |                   |                   |                   |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.  
to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged

## Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

|                   |   |                 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |
|-------------------|---|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Pleasantville**.. | { | Evaporation.... | 304 | 160 | 124 | 050 | 062 | 160 | 272 | 256 | 256 | 302 | 208 | 272 | 192 | *   | *   | *   | 320 | 230 | 320 | 192 | 272 | 288 | 244 | 150 | 162 | 304 | 256 | 160 | 064 | 144 | 092 | 5.816 |
|                   |   | Wind movement.  | 49  | 49  | 31  | 73  | 94  | 45  | 31  | 40  | 51  | 49  | 5   | 92  | 53  | 52  | 105 | *   | 84  | 52  | 44  | 37  | 39  | 78  | 10  | 38  | 58  | 60  | 48  | 52  | 36  | 49  | 101 | 1.605 |
| Runyon.....       | { | Evaporation.... | 240 | 225 | 160 | 180 | 130 | 030 | 180 | 220 | 250 | 255 | 250 | 160 | 200 | 130 | 080 | 100 | 160 | 200 | 320 | 160 | 210 | 250 | 210 | 220 | 130 | 180 | 175 | 185 | 050 | 150 | 040 | 5.430 |
|                   |   | Wind movement.  | 37  | 23  | 29  | 28  | 22  | 20  | 32  | 24  | 22  | 101 | 47  | 20  | 45  | 25  | 55  | 37  | 33  | 58  | 35  | 42  | 28  | 36  | 20  | 10  | 60  | 31  | 11  | 26  | 11  | 18  | 047 | 1.025 |



## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

Vol. XXXI.

August, 1926.

No. 8

## GENERAL SUMMARY.

The weather conditions during August were notable for their persistent heat and moisture. The month averaged nearly as warm as July and was the warmest August since 1918. Rainfall was excessive in all except south-central portions of the State, and the month closed with nearly all deficits of moisture for the growing season made up. Commencing with great quantities of rain on the 12th, it continued almost daily through the 25th and it proved to be the rainiest August since 1919, and one of the rainiest of any month for nearly ten years. The rain was mostly heavily distributed from Burlington to Bergen counties.

Local storms of marked violence occurred in the metropolitan district of the lower Hudson and New York Bay. That of the 12th caused countless instances of minor to great damage, from lightning, flooding of basements, sewers, etc., in many portions of the State. On the 16th a tornado developed probably over the Hackensack meadows and moved over Ridgefield and Morsemere, thence over the Palisades. It probably passed high enough in the air at this time to pass the Hudson and Manhattan without contact, but later was doubtless the controlling force of a water spout to the eastward of Manhattan. The damage in Morsemere and Ridgefield, while not of serious proportions in the aggregate, was total to some structures. The storm was about 100 feet wide, and moved from a general southwest to northeasterly direction. The rain accompanying this storm was accurately measured at Ridgefield, and amounted to 1.30 inches in 20 minutes.

Storm warnings were displayed along the coast on the 22d.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 72.8°, which was 0.8° above normal. The highest temperature was 101° at Bridgeton on the 13th and 14th, and the lowest, 38°, at Runyon on the 31st. The greatest daily range of temperature was 41° at Charlotteburg and Layton on the 10th. The highest monthly mean temperature was 76.4° at Vineland, and the lowest, 69.2° at Charlotteburg.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.3°; Red Sandstone Plain, -1.7°; Southern Interior, -1.1°; Sea Coast, -0.4°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 6.58 inches, which was 1.76 inches above normal.

The greatest monthly precipitation was 8.84 inches, at Hightstown, and the least, 3.74 inches at Bridgeton. The greatest amount of precipitation in any 24 consecutive hours was 4.59 inches at Hightstown on the 12-13th. The mean of the number of days on which 0.01 inch or more precipitation fell was 14, or 4 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -5.41 inches; Red Sandstone Plain, -2.71 inches; Southern Interior, -2.79 inches; Sea Coast, -0.69 inch.

## WIND.

The prevailing wind direction was from the east. The wind

movement averaged 10 miles per hour, which was 1 mile above normal. The highest velocity, sustained for 5 consecutive minutes, was 48 miles per hour from the northwest at Atlantic City on the 14th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which was 2 less than normal; partly cloudy, 9, or 2 less than normal; cloudy, 11, or 4 more than normal. The per cent of possible sunshine was 56, which was 10 per cent below normal.

## MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.01 inches, which was 0.01 inch above normal. The highest reading was 30.33 inches on the 21st and the lowest, 29.75 inches on the 7th, both at Ridgefield.

The mean stage of the Delaware River at Phillipsburg was 2.1 feet; and the highest, 4.5 feet on the 18th. At Trenton the daily stage was 1.2 feet, which was 0.1 foot above normal. The highest stage was 2.4 feet on the 20th.

Thunderstorms occurred on the 1st to 4th, inclusive, 7th, 8th, 12th to 17th, inclusive, 27th, 29th and 30th. Dense fog was noted on the 1st, 2d, 24th, and 25th. Solar halos were observed on the 2d and 23d.

Light hail with no damage fell at Bergen Point on the 7th and at two stations on the night of the 29-30th.

## ERRATA.

January, 1925: Greatest daily range for Atlantic City 33 instead of 32.

February, 1925: Precipitation departure for New York City -1.82 instead of -1.95; departure for Northfield -1.50, omitted.

## COMPARATIVE DATA FOR AUGUST

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 71.7        | 95      | 40     | 6.11          | 10.09    | 3.47  | .....       | .....         | .....  | .....                  |
| 1886..... | 69.5        | 96      | 42     | 2.81          | 5.36     | 1.10  | .....       | .....         | .....  | .....                  |
| 1887..... | 70.4        | 94      | 42     | 3.76          | 7.34     | 2.09  | .....       | .....         | .....  | .....                  |
| 1888..... | 72.5        | 98      | 41     | 6.13          | 10.53    | 2.55  | .....       | .....         | .....  | .....                  |
| 1889..... | 69.6        | 91      | 45     | 5.13          | 9.06     | 1.98  | .....       | .....         | .....  | .....                  |
| 1890..... | 71.5        | 99      | 40     | 4.90          | 7.51     | 2.89  | .....       | .....         | .....  | .....                  |
| 1891..... | 72.8        | 100     | 46     | 5.32          | 8.89     | 2.58  | .....       | .....         | .....  | .....                  |
| 1892..... | 73.4        | 99      | 46     | 3.63          | 5.65     | 0.72  | .....       | .....         | .....  | .....                  |
| 1893..... | 72.8        | 98      | 38     | 6.52          | 11.94    | 3.55  | .....       | .....         | .....  | .....                  |
| 1894..... | 70.9        | 97      | 44     | 2.58          | 9.28     | 0.15  | .....       | .....         | .....  | .....                  |
| 1895..... | 74.2        | 102     | 34     | 2.53          | 5.06     | 0.02  | .....       | .....         | .....  | .....                  |
| 1896..... | 73.6        | 105     | 39     | 1.83          | 3.27     | 0.50  | .....       | .....         | .....  | .....                  |
| 1897..... | 71.0        | 91      | 41     | 4.39          | 8.69     | 2.07  | .....       | .....         | .....  | .....                  |
| 1898..... | 74.8        | 98      | 42     | 5.36          | 9.28     | 2.70  | .....       | .....         | .....  | .....                  |
| 1899..... | 72.3        | 99      | 39     | 4.36          | 9.70     | 2.16  | .....       | .....         | .....  | .....                  |
| 1900..... | 76.3        | 104     | 41     | 2.68          | 4.56     | 0.70  | .....       | .....         | .....  | .....                  |
| 1901..... | 73.8        | 98      | 44     | 9.43          | 15.80    | 4.88  | .....       | .....         | .....  | .....                  |
| 1902..... | 70.1        | 93      | 40     | 3.91          | 10.67    | 1.31  | .....       | .....         | .....  | .....                  |
| 1903..... | 68.4        | 98      | 39     | 6.95          | 14.51    | 4.30  | .....       | .....         | .....  | .....                  |
| 1904..... | 70.8        | 92      | 37     | 6.62          | 13.01    | 2.65  | .....       | .....         | .....  | .....                  |
| 1905..... | 71.1        | 95      | 38     | 5.72          | 9.88     | 3.51  | .....       | .....         | .....  | .....                  |
| 1906..... | 74.6        | 97      | 42     | 5.95          | 17.91    | 2.21  | .....       | .....         | .....  | .....                  |
| 1907..... | 70.5        | 96      | 39     | 3.45          | 7.61     | 1.79  | .....       | .....         | .....  | .....                  |
| 1908..... | 70.6        | 103     | 36     | 5.05          | 9.23     | 2.43  | .....       | .....         | .....  | .....                  |
| 1909..... | 70.2        | 100     | 34     | 4.59          | 12.94    | 1.41  | .....       | .....         | .....  | .....                  |
| 1910..... | 70.4        | 92      | 36     | 3.78          | 8.46     | 1.76  | .....       | .....         | .....  | .....                  |
| 1911..... | 72.1        | 101     | 39     | 8.91          | 14.74    | 5.31  | .....       | .....         | .....  | .....                  |
| 1912..... | 70.0        | 95      | 35     | 3.42          | 7.62     | 1.19  | .....       | .....         | .....  | .....                  |
| 1913..... | 71.7        | 100     | 38     | 4.06          | 10.21    | 1.93  | .....       | .....         | .....  | .....                  |
| 1914..... | 73.3        | 98      | 46     | 3.15          | 6.53     | 1.04  | .....       | .....         | .....  | .....                  |
| 1915..... | 70.9        | 98      | 41     | 7.73          | 10.92    | 4.02  | .....       | .....         | .....  | .....                  |
| 1916..... | 73.2        | 100     | 40     | 1.34          | 4.15     | 0.27  | .....       | .....         | .....  | .....                  |
| 1917..... | 74.0        | 103     | 42     | 2.21          | 5.68     | 0.86  | .....       | .....         | .....  | .....                  |
| 1918..... | 74.4        | 108     | 40     | 1.85          | 4.25     | 0.34  | .....       | .....         | .....  | .....                  |
| 1919..... | 69.9        | 98      | 38     | 6.89          | 12.88    | 3.09  | .....       | .....         | .....  | .....                  |
| 1920..... | 72.3        | 94      | 42     | 6.10          | 10.60    | 2.94  | .....       | .....         | .....  | .....                  |
| 1921..... | 69.8        | 97      | 38     | 4.32          | 8.01     | 2.05  | .....       | .....         | .....  | .....                  |
| 1922..... | 71.2        | 96      | 39     | 4.03          | 6.78     | 2.18  | .....       | .....         | .....  | .....                  |
| 1923..... | 70.8        | 98      | 35     | 2.44          | 4.81     | 1.23  | .....       | .....         | .....  | .....                  |
| 1924..... | 71.9        | 102     | 38     | 4.40          | 9.48     | 1.82  | .....       | .....         | .....  | .....                  |
| 1925..... | 71.0        | 93      | 35     | 2.10          | 4.12     | 0.94  | .....       | .....         | .....  | .....                  |
| 1926..... | 72.8        | 101     | 38     | 6.58          | 8.84     | 3.74  | .....       | .....         | .....  | .....                  |



## Climatological Data for August, 1926

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                                                                                                                           |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|---------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear |                              |           | Pt. cloudy | Cloudy                                                                                                                    |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                           |
| Belvidere.....                       | Warren.....     | 289             | 35                      | 72.5                         | +1.5                      | 98      | 3     | 51     | 31    | 39                       | 5.20  | +0.59                     | 1.05                 | 0                         | 13                           | 18    | 1                            | 12        | .....      | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                   | Passaic.....    | 719             | 34                      | 69.2 <sup>b</sup>            | +1.3                      | 92      | 11    | 43     | 31    | 41                       | 5.93  | +1.31                     | 1.85                 | 0                         | 11                           | 8     | 5                            | 18        | w.         |                                                                                                                           |
| Culvers Lake†.....                   | Sussex.....     | 843             | 25                      | .....                        | .....                     | .....   | ..... | 52     | 21†   | .....                    | 6.68  | +2.26                     | 1.38                 | 0                         | 16                           | 12    | 8                            | 11        | n.         |                                                                                                                           |
| Dover.....                           | Morris.....     | 600             | 42                      | 70.6                         | +1.5                      | 95      | 3     | 47     | 31    | 37                       | 5.46  | +0.70                     | 2.64                 | 0                         | 12                           | 3     | 16                           | 12        | .....      |                                                                                                                           |
| Layton.....                          | Sussex.....     | 480             | 25                      | 70.2                         | +1.8                      | 95      | 3†    | 46     | 31    | 41                       | 6.29  | +2.39                     | 1.58                 | 0                         | 13                           | 8     | 7                            | 16        | sw.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                     |
| Newton.....                          | Sussex.....     | 769             | 42                      | 71.8 <sup>b</sup>            | +1.4                      | 93      | 3†    | 48     | 31    | 33                       | 6.58  | +2.16                     | 1.70                 | 0                         | 16                           | 7     | 10                           | 14        | sw.        |                                                                                                                           |
| Phillipsburg.....                    | Warren.....     | 363             | 43                      | 73.4 <sup>a</sup>            | +1.6                      | 95      | 2     | 53     | 31    | 34                       | 3.89  | -0.73                     | 0.94                 | 0                         | 12                           | 10    | 8                            | 13        | .....      |                                                                                                                           |
| Sussex.....                          | Sussex.....     | 442             | 31                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      |                                                                                                                           |
| Means and extremes.....              |                 |                 |                         | 71.3                         | +1.5                      | 98      | 3     | 43     | 31    | 41                       | 5.72  | +1.24                     | 2.64                 | 0                         | 13                           | 9     | 8                            | 14        | sw.        |                                                                                                                           |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                           |
| Bergen Point††.....                  | Hudson.....     | 37              | 29                      | 74.6                         | +2.4                      | 96      | 3     | 57     | 31    | 26                       | 7.87  | +2.81                     | 3.95                 | 0                         | 12                           | 6     | 17                           | 8         | se.        | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                 |
| Boonton.....                         | Morris.....     | 400             | 36                      | 70.4                         | -0.9                      | 93      | 3     | 46     | 31    | 36                       | 6.70  | +1.62                     | 2.41                 | 0                         | 13                           | 16    | 0                            | 15        | ne.        |                                                                                                                           |
| Chatham.....                         | Morris.....     | 185             | 22                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 6.67  | +2.26                     | 2.62                 | 0                         | 14                           | 14    | 9                            | 8         | .....      |                                                                                                                           |
| Elizabeth.....                       | Union.....      | 45              | 47                      | 74.3 <sup>b</sup>            | +0.9                      | 96      | 3     | 51     | 31    | 35                       | 7.46  | +3.17                     | 3.34                 | 0                         | 15                           | 11    | 11                           | 9         | w.         |                                                                                                                           |
| Flemington.....                      | Hunterdon.....  | 140             | 34                      | 73.1                         | +0.6                      | 95      | 3†    | 54     | 31    | 32                       | 7.78  | +3.07                     | 2.08                 | 0                         | 16                           | 12    | 8                            | 11        | ne.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                          |
| Highwood††.....                      | Bergen.....     | 90              | 38                      | 70.6                         | -0.2                      | 93      | 3     | 54     | 31    | 31                       | 6.95  | +2.20                     | 1.88                 | 0                         | 16                           | 9     | 7                            | 15        | e.         |                                                                                                                           |
| Jersey City.....                     | Hudson.....     | 10              | 28                      | 73.8                         | -0.3                      | 95      | 3†    | 57     | 31    | 26                       | 7.78  | +3.25                     | 4.23                 | 0                         | 16                           | 8     | 13                           | 10        | e.         |                                                                                                                           |
| Lambertville.....                    | Hunterdon.....  | 370             | 39                      | 72.0                         | -0.4                      | 93      | 11    | 53     | 31    | 27                       | 4.46  | -0.20                     | 2.16                 | 0                         | 17                           | 11    | 8                            | 12        | e.         |                                                                                                                           |
| Little Falls.....                    | Passaic.....    | 180             | 32                      | 72.0                         | -1.2                      | 95      | 11    | 50     | 31    | 34                       | 8.41  | +4.01                     | 2.37                 | 0                         | 15                           | 10    | 9                            | 12        | nw.        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.      |
| New Brunswick.....                   | Middlesex.....  | 110             | 73                      | 72.8                         | +0.7                      | 93      | 3     | 54     | 31    | 30                       | 8.30  | +3.15                     | 3.80                 | 0                         | 16                           | 11    | 10                           | 10        | w.         |                                                                                                                           |
| New Milford†.....                    | Bergen.....     | 9               | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      |                                                                                                                           |
| Paterson.....                        | Passaic.....    | 80              | 55                      | 73.5                         | +1.3                      | 97      | 3     | 55     | 31    | 29                       | 8.14  | +3.41                     | 2.45                 | 0                         | 18                           | 11    | 4                            | 16        | se.        |                                                                                                                           |
| Plainfield.....                      | Union.....      | 120             | 33                      | 71.6                         | -0.2                      | 95      | 3     | 48     | 31    | 31                       | 7.67  | +2.46                     | 2.96                 | 0                         | 14                           | 9     | 12                           | 10        | sw.        |                                                                                                                           |
| Ridgefield.....                      | Bergen.....     | 80              | 9                       | 72.2                         | .....                     | 94      | 3     | 53     | 31    | 29                       | 6.66  | .....                     | 1.89                 | 0                         | 17                           | 10    | 13                           | 8         | nw.        | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach.<br>Luther Davis.<br>Hackensack Water Co.                            |
| Somerville.....                      | Somerset.....   | 70              | 43                      | 73.4 <sup>b</sup>            | +1.0                      | 96      | 3     | 43     | 31    | 36                       | 7.30  | +2.46                     | 2.91                 | 0                         | 12                           | 19    | 3                            | 9         | w.         |                                                                                                                           |
| South Orange.....                    | Essex.....      | 200             | 56                      | 71.2 <sup>a</sup>            | +0.3                      | 88      | 3     | 54     | 31    | 20                       | 7.58  | +2.50                     | 3.31                 | 0                         | 15                           | 15    | 3                            | 13        | w.         |                                                                                                                           |
| Verona.....                          | Essex.....      | 490             | .....                   | 70.4                         | .....                     | 91      | 3     | 52     | 31    | 25                       | 7.75  | .....                     | 2.27                 | 0                         | 15                           | 7     | 8                            | 16        | e.         |                                                                                                                           |
| Woodcliff Lake†.....                 | Bergen.....     | 100             | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      |                                                                                                                           |
| New York, N. Y.....                  | .....           | 365             | 56                      | 72.8                         | -0.3                      | 92      | 3     | 58     | 22    | 21                       | 7.57  | +3.04                     | 4.51                 | 0                         | 16                           | 3     | 13                           | 15        | e.         | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....              |                 |                 |                         | 72.4                         | +0.3                      | 97      | 3     | 43     | 31    | 36                       | 7.34  | +2.58                     | 4.23                 | 0                         | 15                           | 11    | 9                            | 11        | e.         |                                                                                                                           |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                           |
| Belleplain.....                      | Cape May.....   | 30              | 32                      | 71.2                         | -1.4                      | 94      | 3     | 45     | 31    | 34                       | 5.18  | +0.88                     | 1.59                 | 0                         | 9                            | 21    | 1                            | 9         | s.         | Thomas J. Durell.<br>Paul T. Kornmau.<br>Public Service Power Co.<br>John G. Reutter.                                     |
| Bridgeton.....                       | Cumberland..... | 90              | 45                      | 75.5 <sup>b</sup>            | +0.5                      | 101     | 13†   | 52     | 31    | 38                       | 3.74  | -0.85                     | 1.65                 | 0                         | 11                           | 12    | 5                            | 14        | sw.        |                                                                                                                           |
| Burlington.....                      | Burlington..... | 12              | 34                      | 75.4                         | +1.2                      | 95      | 12    | 55     | 31    | 27                       | 6.53  | +1.08                     | 2.08                 | 0                         | 13                           | 14    | 10                           | 7         | nw.        |                                                                                                                           |
| Clayton.....                         | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      |                                                                                                                           |
| Hammononton.....                     | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 5.56  | +1.58                     | 2.17                 | 0                         | 12                           | 14    | 10                           | 7         | ne.        | R. E. Montgomery.<br>Harvey M. Grover.<br>Frank M. Lawrence.<br>James M. Armstrong.                                       |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 73.2 <sup>a</sup>            | +0.9                      | 96      | 3     | 49     | 31    | 34                       | 8.84  | +4.26                     | 4.59                 | 0                         | 14                           | 13    | 10                           | 8         | .....      |                                                                                                                           |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | .....                        | .....                     | .....   | ..... | 50     | 31    | .....                    | 7.06  | +2.29                     | 2.07                 | 0                         | 12                           | ..... | .....                        | .....     | .....      |                                                                                                                           |
| Indian Mills†.....                   | Burlington..... | 76              | 37                      | 74.5 <sup>f</sup>            | +1.9                      | 96      | 3†    | .....  | ..... | .....                    | 5.90  | -0.03                     | 0.92                 | 0                         | 15                           | ..... | .....                        | .....     | .....      |                                                                                                                           |
| Lakewood.....                        | Ocean.....      | 54              | 22                      | 72.6                         | +1.5                      | 94      | 3     | 51     | 31    | 28                       | 3.82  | -2.23                     | 0.90                 | 0                         | 13                           | 10    | 8                            | 13        | ne.        | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                       |
| Moorestown.....                      | Burlington..... | 75              | 63                      | 73.5                         | +0.9                      | 94      | 11†   | 53     | 31    | 32                       | 6.21  | +1.32                     | 1.73                 | 0                         | 13                           | 13    | 11                           | 7         | s.         |                                                                                                                           |
| Northfield†.....                     | Atlantic.....   | 25              | 19                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 6.44  | +2.09                     | 1.56                 | 0                         | 12                           | ..... | .....                        | .....     | .....      |                                                                                                                           |
| Pleasantville†.....                  | Atlantic.....   | 26              | 28                      | 73.4                         | .....                     | 95      | 3     | 48     | 31    | 30                       | 5.65  | +0.72                     | 1.57                 | 0                         | 12                           | 15    | 10                           | 6         | ue.        |                                                                                                                           |
| Riverton.....                        | Burlington..... | .....           | .....                   | 73.0                         | .....                     | 93      | 3†    | 52     | 31    | 30                       | 6.08  | .....                     | 1.80                 | 0                         | 14                           | 10    | 12                           | 9         | ne.        | Japanese Beetle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes |
| Runyon†.....                         | Middlesex.....  | 18              | 2                       | 72.4                         | .....                     | 95      | 3†    | 38     | 31    | 39                       | 7.58  | .....                     | 3.94                 | 0                         | 13                           | 12    | 14                           | 5         | e.         |                                                                                                                           |
| Trenton.....                         | Mercer.....     | 190             | 54                      | 73.5                         | +0.5                      | 94      | 11    | 57     | 31    | 24                       | 7.73  | +2.36                     | 4.18                 | 0                         | 15                           | 8     | 11                           | 12        | e.         |                                                                                                                           |
| Tuckerton.....                       | Ocean.....      | 23              | 33                      | .....                        | .....                     | 99      | 3     | .....  | ..... | .....                    | 7.00  | +1.46                     | 1.70                 | 0                         | 16                           | 18    | 9                            | 4         | e.         |                                                                                                                           |
| Vineland.....                        | Cumberland..... | 109             | 57                      | 75.4 <sup>a</sup>            | +2.7                      | 99      | 14    | 54     | 31    | 31                       | 4.94  | +0.13                     | 1.16                 | 0                         | 10                           | 16    | 4                            | 11        | sw.        |                                                                                                                           |
| Philadelphia, Pa.....                | .....           | 117             | 55                      | 75.4                         | +0.6                      | 96      | 3     | 59     | 21    | 24                       | 5.99  | +1.38                     | 1.70                 | 0                         | 14                           | 7     | 10                           | 14        | sw.        | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....              |                 |                 |                         | 73.7                         | +1.0                      | 101     | 13†   | 38     | 31    | 39                       | 6.14  | +1.08                     | 4.59                 | 0                         | 13                           | 13    | 9                            | 9         | ne.        |                                                                                                                           |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                           |
| Asbury Park.....                     | Monmouth.....   | 22              | 37                      | 72.8 <sup>b</sup>            | +1.0                      | 95      | 3     | 57     | 31    | 24                       | 4.81  | -0.25                     | 2.25                 | 0                         | 15                           | 12    | 12                           | 7         | ne.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                            |
| Atlantic City.....                   | Atlantic.....   | 16              | 53                      | 74.2                         | +1.7                      | 91      | 29    | 60     | 31    | 22                       | 6.96  | +2.66                     | 2.19                 | 0                         | 11                           | 12    | 7                            | 12        | s.         |                                                                                                                           |
| Cape May City.....                   | Cape May.....   | 17              | 42                      | 75.5                         | +2.1                      | 94      | 3     | 58     | 31    | 23                       | 8.82  | +4.56                     | 1.66                 | 0                         | 14                           | ..... | .....                        | .....     | e.         |                                                                                                                           |
| Sandy Hook.....                      | Monmouth.....   | 22              | 28                      | 73.2                         | +0.4                      | 93      | 3     | 62     | 31    | 20                       | 6.46  | +1.92                     | 2.62                 | 0                         | 17                           | 7     | 13                           | 11        | e.         |                                                                                                                           |
| Means and extremes.....              |                 |                 |                         | 73.9                         | +1.3                      | 95      | 3     | 57     | 31    | 24                       | 6.76  | +2.22                     | 2.62                 | 0                         | 14                           | 10    | 11                           | 10        | e.         |                                                                                                                           |
| For the State.....                   |                 |                 |                         | 72.8                         | +0.8                      | 101     | 13†   | 38     | 31    | 41                       | 6.58  | +1.76                     | 4.59                 | 0                         | 14                           | 11    | 9                            | 11        | e.         |                                                                                                                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville and Runyon are Trenton.



Daily Precipitation for August, 1926

| Stations                                   | Drainage Basin  | Day of month |     |     |     |   |     |     |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     | Total |      |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|---|-----|-----|-----|---|-----|-----|------|------|------|------|------|------|-----|------|-----|-----|-----|------|------|-----|-----|-----|-----|----|-----|-----|-------|------|
|                                            |                 | 1            | 2   | 3   | 4   | 5 | 6   | 7   | 8   | 9 | 10  | 11  | 12   | 13   | 14   | 15   | 16   | 17   | 18  | 19   | 20  | 21  | 22  | 23   | 24   | 25  | 26  | 27  | 28  | 29 | 30  | 31  |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |   |     |     |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     |       |      |
| Belvidere.....                             | Delaware.....   | *            |     |     |     |   |     |     |     |   |     |     | .60  | .93  | 1.00 | 1.02 | 1.05 | .09  | .06 |      |     |     | .14 | .14  | .05  |     | .03 | .07 |     |    | .02 |     | 5.20  |      |
| Charlotteburg.....                         | Passaic.....    |              | .06 |     |     |   |     |     |     |   |     |     | .79  | 1.20 | 1.85 | *    | 1.04 | .13  | .22 |      |     | *   | *   | .25  | .22  | .07 |     | .10 |     |    |     |     | 5.93  |      |
| Culvers Lake.....                          | Delaware.....   | .11          | .02 |     |     |   |     | .01 |     |   |     |     | .77  | .85  | 1.30 | .40  | 1.38 | .04  | .36 |      |     | .11 | .38 | .08  | .50  | T.  | .27 | .10 |     |    |     |     | 6.68  |      |
| Dover.....                                 | Passaic.....    | .07          |     |     |     |   |     |     |     |   |     |     | *    | 1.81 | *    | .93  | 1.71 | .12  | .06 |      |     | *   | .36 | .18  | .22  |     |     |     |     |    |     |     | 5.46  |      |
| Layton.....                                | Delaware.....   | T            | T.  | .02 |     |   |     |     |     |   |     |     | .65  | .96  | .44  | .11  | 1.58 | T    | .41 |      |     | .04 | .63 | .02  | .98  | .01 |     | .44 |     |    |     |     | 6.29  |      |
| Newton.....                                | Delaware.....   | .03          | .03 |     |     |   |     |     |     |   |     |     | 1.67 | .46  | 1.70 | .14  | 1.25 | .33  | .19 |      |     | .17 | .16 | .02  | .08  | .12 | .02 | .21 |     |    | T.  |     | 6.58  |      |
| Phillipsburg.....                          | do.....         | .42          |     | .04 |     |   |     | T.  |     |   |     |     | .94  | .34  | .31  | .08  | .72  | T    | .07 |      |     | .16 | .12 | T.   | .61  | .08 |     |     |     |    |     |     | 3.89  |      |
| Sussex.....                                | Hudson.....     |              |     |     |     |   |     |     |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     |       |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |   |     |     |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     |       |      |
| Bergen Point**.....                        | Coast.....      | .18          |     |     |     |   |     | .40 |     |   |     |     | 3.43 | .52  | .92  | .06  | .98  | .04  | .21 |      |     |     | .38 |      | .58  | .17 |     |     |     |    |     |     | 7.87  |      |
| Boonton   .....                            | Passaic.....    | .04          | .05 |     |     |   |     |     |     |   |     |     | 2.12 | .04  | 1.41 |      | 2.41 | .07  | .05 |      |     | .09 | .10 |      | .18  | .12 |     |     | .02 |    |     |     | 6.70  |      |
| do.....                                    | do.....         | .08          | .08 | T.  |     |   |     | .01 | .02 |   |     |     | 2.62 | .05  | .57  |      | 1.92 | .06  | .16 |      |     | .16 | .28 | T.   | .45  | .21 |     |     |     |    |     |     | 6.67  |      |
| Elizabeth.....                             | Coast.....      | .20          | .04 |     |     |   |     | T.  | .13 |   |     |     | 1.93 | 1.41 | .48  | .80  | .11  | .95  | .26 | T.   |     | .46 | .03 | .40  | .20  | .06 |     |     |     |    |     |     | 7.46  |      |
| Flemington.....                            | Raritan.....    | .84          | .02 | T.  |     |   |     | .03 | .22 |   |     |     | .96  | 1.12 | .05  | .56  | 1.93 | .11  | .18 | .01  |     | .12 | .13 | T.   | .86  | .10 |     | .54 |     |    | T.  |     | 7.78  |      |
| Highwood.....                              | Hackensack..... | T.           | T.  |     |     |   |     | .03 | .08 |   |     | .10 | .63  | 1.65 | .95  | .14  | 1.88 | .35  | .20 |      |     | T.  | .20 |      | .18  | .15 | .29 | .09 |     |    | .03 |     | 6.95  |      |
| Jersey City.....                           | Coast.....      | .02          | .03 | T.  | .01 |   |     | T.  | .14 |   |     |     | 3.37 | .86  | 1.46 | .08  | .40  | .02  | .08 |      |     | .02 | .20 |      | .63  | .41 | .05 |     |     |    |     |     | 7.78  |      |
| Lambertville.....                          | Delaware.....   | .26          | .06 | T.  |     |   |     | T.  | .06 |   |     |     | .82  | 1.34 | .09  | .21  | .10  | .05  | .32 |      |     | .30 | .28 | .02  | .33  | .20 | .01 | .01 |     |    |     |     | 4.46  |      |
| Little Falls.    .....                     | Passaic.....    | .03          | .18 | .07 |     |   |     | .10 | T.  |   |     |     | 2.37 | .14  | 2.20 |      | 2.08 | .06  | .08 |      |     | .09 | .57 | T.   | .14  | .25 | T.  | .05 |     |    |     |     | 8.41  |      |
| New Brunswick.....                         | Raritan.....    | .24          | .08 |     |     |   |     | .01 | .34 |   |     |     | 1.07 | 2.73 | .07  | .83  | .04  | .96  | .85 |      |     | .10 | .28 |      | .40  | .24 |     |     |     |    | .06 |     | 8.30  |      |
| New Milford.**.....                        | Hackensack..... |              |     |     |     |   |     |     |     |   |     |     | .04  | 1.37 | 1.08 | 2.05 | .40  | 1.54 | .15 | .24  | .02 |     | T.  | .44  | .05  | .12 | .10 | .24 | .08 |    |     | T.  |       | 8.14 |
| Paterson.....                              | Passaic.....    | .16          | .03 |     |     |   |     | .02 |     |   |     |     | .04  | 1.37 | 1.08 | 2.05 | .40  | 1.54 | .15 | .24  | .02 |     | T.  | .44  | .05  | .12 | .10 | .24 | .08 |    |     | T.  |       | 8.14 |
| Plainfield.....                            | Raritan.....    | .52          | .03 |     |     |   |     | .03 |     |   |     |     | 1.66 | 1.30 | .19  | .32  | 2.50 | .04  | .19 |      |     | .04 | .36 |      | .31  | .18 |     |     |     |    |     |     | 7.67  |      |
| Ridgefield.....                            | Hackensack..... | .02          | .03 |     |     |   |     | .18 |     |   |     |     | 1.89 | .35  | .50  | .75  | 1.55 | .39  | .14 |      |     | *   | .24 | .01  | .26  | .25 | .05 | .05 |     |    | T.  |     | 6.66  |      |
| Somerville.....                            | Raritan.....    | .72          |     |     |     |   |     | .03 |     |   |     |     | 1.37 | 1.54 | .54  | .09  | 1.10 | 1.59 | .19 |      |     | .43 | *   | .55  | .15  |     |     |     |     |    |     |     | 7.30  |      |
| South Orange.....                          | Rahway.....     | .02          | .05 | .03 |     |   |     |     |     |   |     |     | 1.98 | 1.33 | .57  | .73  | .65  | .59  | .63 |      |     | .63 | .35 |      | .31  | .20 | .11 |     |     |    |     |     | 7.58  |      |
| Verona**.....                              | Passaic.....    | .03          | .14 |     |     |   |     | .03 |     |   |     |     | 1.87 | .97  | 2.27 | .13  | 1.04 | .04  | .12 |      |     | T.  | .44 |      | .24  | .14 | .25 |     |     |    | .04 |     | 7.75  |      |
| Woodcliff Lake***.....                     | Hackensack..... |              |     |     |     |   |     |     |     |   |     |     | 4.18 | .34  | 1.26 | .05  | .37  | .02  | .09 |      |     | .01 | .23 |      | .47  | .32 | .04 |     |     |    |     |     | 7.57  |      |
| New York, N. Y***.....                     | Coast.....      | .04          | .01 | T.  | .01 |   | T.  | .13 |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     |       |      |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |   |     |     |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     |       |      |
| Belleplain.....                            | Tuckahoe.....   | .15          | *   |     |     |   |     |     |     |   |     |     |      | .07  | .85  | .16  | 1.15 |      | .09 | .65  | .47 |     |     |      | 1.59 |     |     |     |     |    |     |     | 5.18  |      |
| Bridgeport.....                            | Coast.....      | *            |     |     |     |   |     | .20 |     |   | .07 |     |      | .15  | .10  | *    | .65  | 1.00 |     |      | .60 | .07 |     | .07  | .79  | .04 |     |     |     |    |     |     | 3.74  |      |
| Burlington.....                            | Delaware.....   | .31          |     |     |     |   |     | .04 |     |   |     |     | 2.08 | .05  | .94  | 1.50 | .19  | .38  |     |      | .10 | .46 |     | .18  | .14  | .16 |     |     |     |    |     |     | 6.53  |      |
| Clayton.....                               | Delaware.....   |              |     |     |     |   |     |     |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     |       |      |
| Hammonton.....                             | Mullica.....    | .07          |     | T.  | T.  |   |     | .91 |     |   |     |     | .12  | 2.17 |      | .32  | .08  | .41  | .17 | .48  | .13 |     | .14 | .56  |      |     |     |     |     |    |     |     | 5.56  |      |
| Hightstown.....                            | Raritan.....    | .37          | T.  |     |     |   |     | T.  | .53 |   |     |     | 2.56 | 2.03 | .45  | .10  | .95  | .07  | .64 |      |     | .26 | .22 |      | .22  | .30 |     |     | T.  |    | .14 |     | 8.84  |      |
| Imlaystown.....                            | Delaware.....   | .56          |     |     |     |   |     | .10 |     |   |     |     | 2.07 | *    | 1.32 | .35  | .69  | 1.07 |     |      | .09 | .30 |     | .23  | .28  |     |     |     |     |    |     |     | 7.06  |      |
| Indian Mills.....                          | Mullica.....    | .06          | .09 | T.  | .75 |   |     | .80 | .48 |   |     |     | .07  | .36  | .92  | .64  | T.   | .30  |     | .02  | .50 | .30 |     | .17  | .44  |     |     |     |     |    |     |     | 5.99  |      |
| Lakewood.....                              | Metedeconk..... | .30          |     |     |     |   |     | .90 |     |   |     |     | T.   | .27  |      | .57  | .12  | .25  | .50 |      |     | .15 | .25 |      | .08  | .25 | .14 |     |     |    | .04 |     | 3.82  |      |
| Moorestown.....                            | Delaware.....   | .13          |     |     |     |   |     | .74 |     |   |     |     | .78  | 1.13 | 1.73 | .13  | .10  | .31  |     |      | .31 | .20 |     | .30  | .25  | .10 |     |     |     |    |     |     | 6.21  |      |
| Northfield.....                            | Coast.....      | .52          |     |     |     |   |     | .62 |     |   |     |     |      | .06  | 1.56 | .05  | 1.17 | .88  | .02 | T.   | .53 | .28 |     | .69  | .06  |     |     |     |     |    |     |     | 6.44  |      |
| Pleasantville   .....                      | Coast.....      | .06          | T.  |     |     |   |     | .47 |     |   |     |     |      | .04  | 1.57 | T.   | 1.02 | .06  | .76 | .01  | T.  | .77 | .12 |      | .09  | .68 |     |     |     |    |     |     | 5.65  |      |
| Riverton   .....                           | Delaware.....   | .23          |     |     | .08 |   |     | .18 |     |   |     |     | 1.80 |      | .97  | .25  | 1.22 | .09  | .34 |      | *   | .45 | .07 | T.   | .13  | .27 | T.  |     |     |    |     |     | 6.08  |      |
| Runyon.....                                | Coast.....      | .21          | .05 |     |     |   |     | .15 |     |   |     |     | 1.06 | 2.88 |      | .94  | .31  | .13  | .68 |      |     | .42 | .34 | .26  |      |     |     |     |     |    | .15 |     | 7.58  |      |
| Trenton***.....                            | Delaware.....   | 1.16         | .01 | T.  |     |   |     | .20 |     |   |     |     | 2.36 | 1.82 | .24  | .01  | .64  | .02  | .29 |      |     | .24 | .25 | T.   | .17  | .20 |     | T.  |     |    | .12 | T.  | 7.73  |      |
| Tuckerton.....                             | Coast.....      | .10          |     |     | .21 |   |     | .28 |     |   |     |     | .13  | 1.70 | 1.60 | .12  | .56  | .42  | .10 | .10  | .20 | .60 |     | .60  | .26  |     |     |     |     |    |     |     | 7.00  |      |
| Vineland.....                              | Maurice.....    | .20          |     |     |     |   |     | .35 |     |   |     |     |      |      | 1.16 |      | .61  | 1.14 | T.  | .03  | *   | .72 |     | .04  | .69  |     |     |     |     |    |     |     | 4.94  |      |
| Phila., Pa***.....                         | Delaware.....   | .46          | T.  | T.  |     |   |     | .78 |     |   |     |     | 1.18 | .52  | .53  | .12  | .89  | .04  | .33 | T.   | T.  | .41 | .06 |      | .20  | .20 | .27 |     |     |    |     |     | 5.99  |      |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |   |     |     |     |   |     |     |      |      |      |      |      |      |     |      |     |     |     |      |      |     |     |     |     |    |     |     |       |      |
| Asbury Park.....                           | Coast.....      | .30          | T.  |     |     |   |     | .05 | .01 |   |     |     | 1.50 | .75  | .15  | .20  | .50  | .10  | .50 |      |     | .05 | .10 |      | .10  | .30 |     |     |     |    | .20 |     | 4.81  |      |
| Atlantic City***.....                      | do.....         | .34          |     |     | .01 |   |     | .62 |     |   |     |     | T.   | 1.10 |      | 1.29 | 1.03 | .87  | T.  | T.   | .52 | .12 |     |      | 1.05 | .01 |     |     |     |    |     |     | 6.96  |      |
| Cape May City.....                         | do.....         | 1.52         |     |     |     |   |     | .04 |     |   |     |     | .07  | .95  | .53  | .76  | .34  | .33  | .03 | 1.66 | .06 | T.  | .19 | 1.37 | .97  |     |     |     |     |    |     |     | 8.82  |      |
| Sandy Hook***.....                         | do.....         | .09          | T.  |     |     |   | .01 | .03 |     |   |     |     | 1.62 | 1.18 | .44  | .35  | .02  | 1.48 | .24 | .60  |     | .03 | .15 |      | .33  | .30 |     |     |     |    | .02 | .03 |       | 6.46 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. ‡ Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           | Moisture                               |                                           |                                         | Sun-<br>shine |       |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|-------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |       |
|                       |              |         |      |        |      |                 | Miles per hour | Direction |                                        |                                           |                                         |               | Date  |
| Atlantic City.....    | 30.00        | 30.23   | 22   | 29.80  | 7    | 15.4            | 48             | nw.       | 14                                     | 86                                        | 72                                      | 81            | 57    |
| New York, N. Y.....   | 30.01        | 30.32   | 21   | 29.75  | 7    | 12.6            | 44             | nw.       | 14                                     | 79                                        | 66                                      | 75            | 58    |
| Philadelphia, Pa..... | 30.00        | 30.29   | 22   | 29.77  | 7    | 6.5             | 23             | n.        | 14                                     | 82                                        | 69                                      | 74            | 57    |
| Ridgefield.....       | 30.01        | 30.33   | 21   | 29.75  | 7    | .....           | .....          | .....     | .....                                  | .....                                     | .....                                   | .....         | ..... |
| Sandy Hook.....       | 30.00        | 30.30   | 21   | 29.77  | 7    | 12.3            | 45             | n.        | 12                                     | 81                                        | 69                                      | 80            | 54    |
| Trenton.....          | 30.00        | 30.27   | 21   | 29.78  | 7    | 8.2             | 36             | nw.       | 29                                     | 82                                        | 67                                      | 77            | 56    |
| Verona.....           | 30.02        | 30.31   | 21   | 29.77  | 7    | 4.0             | 21             | nw.       | 14                                     | 81*                                       | .....                                   | 80            | ..... |



Daily Temperatures for August, 1926

| Stations                             | 1       | 2     | 3     | 4     | 5     | 6  | 7  | 8     | 9  | 10 | 11 | 12 | 13    | 14  | 15  | 16 | 17 | 18 | 19 | 20 | 21    | 22 | 23    | 24    | 25    | 26    | 27 | 28    | 29    | 30    | 31                | Mean              |                   |      |      |
|--------------------------------------|---------|-------|-------|-------|-------|----|----|-------|----|----|----|----|-------|-----|-----|----|----|----|----|----|-------|----|-------|-------|-------|-------|----|-------|-------|-------|-------------------|-------------------|-------------------|------|------|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |    |    |       |    |    |    |    |       |     |     |    |    |    |    |    |       |    |       |       |       |       |    |       |       |       |                   |                   |                   |      |      |
| Belvidere.....                       | Maximum | 74    | 93    | 98    | 93    | 87 | 88 | 84    | 79 | 90 | 92 | 95 | 89    | 88  | 86  | 76 | 85 | 74 | 77 | 75 | 65    | 65 | 72    | 71    | 70    | 81    | 83 | 89    | 93    | 84    | 79                | 82.7              |                   |      |      |
|                                      | Minimum | 64    | 68    | 71    | 69    | 63 | 68 | 68    | 60 | 55 | 53 | 71 | 71    | 68  | 69  | 65 | 65 | 69 | 59 | 57 | 56    | 57 | 58    | 61    | 62    | 62    | 59 | 56    | 55    | 62    | 63                | 51                | 62.3              |      |      |
| Charlotteburg.....                   | Maximum | 73    | ..... | ..... | 90    | 83 | 84 | 81    | 78 | 84 | 87 | 92 | 85    | 88  | 85  | 86 | 81 | 85 | 79 | 72 | 72    | 66 | 66    | 72    | 73    | 70    | 75 | 81    | 85    | 90    | 85                | 78                | 80.2 <sup>a</sup> |      |      |
|                                      | Minimum | ..... | ..... | ..... | 68    | 58 | 55 | 60    | 58 | 58 | 46 | 62 | 65    | 64  | 65  | 60 | 64 | 67 | 63 | 56 | 54    | 48 | 54    | 59    | 57    | 60    | 60 | 58    | 48    | 58    | 60                | 43                | 58.1 <sup>a</sup> |      |      |
| Dover.....                           | Maximum | 68    | 90    | 95    | 91    | 80 | 82 | 81    | 74 | 89 | 90 | 94 | 83    | 87  | 87  | 81 | 74 | 81 | 71 | 71 | 70    | 63 | 64    | 70    | 69    | 67    | 81 | 81    | 87    | 91    | 80                | 76                | 79.6              |      |      |
|                                      | Minimum | 63    | 56    | 71    | 70    | 62 | 61 | 68    | 62 | 56 | 53 | 70 | 68    | 69  | 69  | 65 | 66 | 70 | 54 | 57 | 56    | 55 | 56    | 61    | 62    | 59    | 59 | 55    | ..... | 66    | 60                | 47                | 61.7 <sup>a</sup> |      |      |
| Layton.....                          | Maximum | 70    | 90    | 95    | 91    | 88 | 88 | 83    | 76 | 86 | 89 | 95 | 85    | 86  | 84  | 82 | 73 | 84 | 65 | 72 | 73    | 70 | 66    | 70    | 70    | 68    | 80 | 81    | 85    | 91    | 90                | 72                | 80.3              |      |      |
|                                      | Minimum | 62    | 62    | 67    | 66    | 63 | 61 | 62    | 57 | 49 | 48 | 69 | 70    | 68  | 67  | 61 | 62 | 65 | 57 | 54 | 58    | 56 | 54    | 60    | 60    | 57    | 60 | 54    | 62    | 64    | 59                | 46                | 60.0              |      |      |
| Newton.....                          | Maximum | 73    | 88    | 93    | 90    | 86 | 85 | 82    | 76 | 88 | 88 | 93 | 88    | 87  | 85  | 84 | 77 | 85 | 79 | 73 | ..... | 75 | 68    | 78    | 75    | ..... | 79 | 83    | 87    | 90    | 79                | 75                | 82.4 <sup>b</sup> |      |      |
|                                      | Minimum | 63    | 65    | 69    | 63    | 61 | 67 | 63    | 56 | 55 | 69 | 67 | 67    | 67  | 62  | 62 | 69 | 55 | 55 | 55 | 53    | 54 | 61    | 65    | ..... | 59    | 55 | 57    | 63    | 60    | 48                | 61.1 <sup>a</sup> |                   |      |      |
| Phillipsburg.....                    | Maximum | 74    | 95    | 94    | 94    | 88 | 89 | ..... | 79 | 87 | 89 | 94 | 87    | 86  | 87  | 89 | 82 | 88 | 75 | 79 | 74    | 69 | ..... | 74    | 72    | 70    | 81 | 84    | 86    | 93    | 86                | 80                | 83.6 <sup>b</sup> |      |      |
|                                      | Minimum | 64    | 69    | 71    | 71    | 65 | 65 | 69    | 60 | 55 | 55 | 70 | 70    | 69  | 70  | 67 | 65 | 69 | 62 | 62 | 60    | 58 | 59    | 63    | 62    | 65    | 60 | 56    | 56    | 61    | 59                | 53                | 63.2              |      |      |
| The Red Sandstone Plain.             |         |       |       |       |       |    |    |       |    |    |    |    |       |     |     |    |    |    |    |    |       |    |       |       |       |       |    |       |       |       |                   |                   |                   |      |      |
| Bergen Point.....                    | Maximum | 71    | 90    | 96    | 92    | 83 | 81 | 84    | 82 | 87 | 90 | 94 | 94    | 90  | 88  | 83 | 78 | 86 | 74 | 74 | 74    | 66 | 68    | 77    | 73    | 70    | 71 | 83    | 87    | 94    | 85                | 76                | 82.0              |      |      |
|                                      | Minimum | 66    | 68    | 76    | 74    | 69 | 68 | 71    | 65 | 69 | 70 | 71 | 71    | 69  | 71  | 68 | 72 | 71 | 61 | 61 | 62    | 61 | 59    | 65    | 65    | 65    | 69 | 69    | 67    | 94    | 67                | 57                | 67.3              |      |      |
| Boontonff.....                       | Maximum | 70    | 88    | 93    | 91    | 86 | 86 | 81    | 75 | 87 | 87 | 91 | 85    | 89  | 82  | 85 | 75 | 84 | 70 | 75 | 74    | 65 | 68    | 77    | 72    | 68    | 82 | 83    | 86    | 90    | 79                | 74                | 80.6              |      |      |
|                                      | Minimum | 63    | 63    | 66    | 68    | 65 | 59 | 64    | 61 | 58 | 51 | 62 | 67    | 66  | 67  | 65 | 63 | 67 | 64 | 54 | 57    | 50 | 55    | 62    | 62    | 57    | 59 | 54    | 58    | 60    | 62                | 46                | 60.3              |      |      |
| Elizabeth.....                       | Maximum | 76    | 91    | 96    | 93    | 90 | 86 | 84    | 84 | 92 | 91 | 95 | 91    | 90  | 90  | 87 | 80 | 89 | 81 | 77 | 75    | 70 | 68    | ..... | 69    | 79    | 83 | 87    | 94    | ..... | 80                | 84                | 86.0 <sup>a</sup> |      |      |
|                                      | Minimum | 65    | 68    | 72    | 71    | 67 | 65 | 71    | 62 | 57 | 58 | 69 | 71    | 69  | 71  | 66 | 67 | 69 | 63 | 59 | 57    | 60 | 59    | 63    | 61    | 62    | 64 | 59    | 59    | 66    | 64                | 51                | 64.0              |      |      |
| Flemington.....                      | Maximum | 71    | 91    | 95    | 91    | 88 | 84 | 84    | 78 | 89 | 88 | 95 | 88    | 88  | 88  | 85 | 82 | 85 | 76 | 73 | 70    | 65 | 69    | 75    | 72    | 69    | 82 | 83    | 88    | 92    | 85                | 77                | 82.1              |      |      |
|                                      | Minimum | 64    | 69    | 72    | 72    | 68 | 65 | 70    | 64 | 60 | 56 | 69 | 69    | 69  | 71  | 67 | 68 | 70 | 62 | 59 | 58    | 59 | 58    | 64    | 60    | 62    | 63 | 57    | 58    | 65    | 66                | 54                | 64.1              |      |      |
| Highwood.....                        | Maximum | 69    | 86    | 93    | 88    | 80 | 81 | 79    | 78 | 85 | 86 | 91 | 80    | 83  | 81  | 79 | 73 | 82 | 72 | 70 | 71    | 64 | 68    | 74    | 71    | 68    | 75 | 77    | 82    | 90    | 80                | 73                | 78.4              |      |      |
|                                      | Minimum | 65    | 67    | 72    | ..... | 67 | 63 | 71    | 61 | 56 | 55 | 62 | 69    | 68  | 69  | 67 | 67 | 70 | 60 | 58 | 58    | 56 | 57    | 63    | 62    | 62    | 65 | 60    | 55    | 65    | 61                | 54                | 62.8 <sup>a</sup> |      |      |
| Jersey City.....                     | Maximum | 70    | 89    | 95    | 92    | 83 | 80 | 83    | 77 | 88 | 90 | 94 | 86    | 89  | 87  | 85 | 78 | 87 | 76 | 76 | 73    | 65 | 67    | 76    | 73    | 71    | 77 | 81    | 84    | 95    | 84                | 75                | 81.5              |      |      |
|                                      | Minimum | 65    | 67    | 75    | 73    | 71 | 67 | 70    | 67 | 64 | 67 | 71 | 69    | 69  | 69  | 68 | 71 | 63 | 63 | 63 | 61    | 59 | 58    | 62    | 65    | 65    | 65 | 64    | 64    | 69    | 63                | 57                | 66.1              |      |      |
| Lambertville.....                    | Maximum | 70    | 90    | 92    | 87    | 83 | 82 | 84    | 77 | 83 | 87 | 93 | 91    | 88  | 89  | 83 | 82 | 85 | 74 | 74 | 70    | 64 | 69    | 78    | 69    | 68    | 72 | 82    | 85    | 89    | 80                | 74                | 80.5              |      |      |
|                                      | Minimum | 64    | 68    | 73    | 72    | 65 | 65 | 68    | 63 | 58 | 60 | 68 | 71    | 69  | 72  | 66 | 66 | 70 | 60 | 57 | 58    | 57 | 58    | 67    | 72    | 67    | 62 | 80    | 83    | 86    | 93                | 81                | 76                | 81.0 |      |
| Little Fallsff.....                  | Maximum | 69    | 90    | 94    | 91    | 85 | 82 | 82    | 79 | 89 | 89 | 95 | 86    | 90  | 58  | 84 | 75 | 84 | 70 | 76 | 74    | 65 | 67    | 57    | 63    | 60    | 64 | 58    | 60    | 66    | 61                | 53                | 63.6              |      |      |
|                                      | Minimum | 65    | 66    | 69    | 70    | 64 | 63 | 62    | 62 | 59 | 55 | 66 | 71    | 69  | 69  | 67 | 66 | 70 | 66 | 57 | 59    | 56 | 58    | 62    | 61    | 62    | 60 | 59    | 68    | 64    | 50                | 62.9              |                   |      |      |
| New Brunswick.....                   | Maximum | 71    | 86    | 93    | 89    | 87 | 79 | 83    | 80 | 84 | 87 | 92 | 91    | 87  | 87  | 82 | 80 | 85 | 74 | 73 | 70    | 66 | 69    | 76    | 75    | 70    | 78 | 83    | 84    | 91    | 88                | 77                | 81.2              |      |      |
|                                      | Minimum | 65    | 68    | 73    | 73    | 69 | 65 | 69    | 64 | 57 | 57 | 62 | 70    | 69  | 70  | 67 | 67 | 70 | 63 | 59 | 59    | 60 | 59    | 64    | 60    | 64    | 64 | 59    | 59    | 67    | 67                | 54                | 64.5              |      |      |
| Paterson.....                        | Maximum | 73    | 90    | 97    | 92    | 87 | 85 | 83    | 81 | 88 | 91 | 95 | 84    | 88  | 86  | 82 | 76 | 84 | 74 | 73 | 70    | 63 | 59    | 59    | 64    | 60    | 64 | 64    | 59    | 59    | 67                | 67                | 54                | 61.8 |      |
|                                      | Minimum | 65    | 67    | 74    | 72    | 69 | 66 | 71    | 65 | 61 | 62 | 71 | 71    | 69  | 71  | 68 | 68 | 71 | 60 | 59 | 60    | 56 | 58    | 63    | 64    | 62    | 65 | 62    | 61    | 68    | 65                | 55                | 65.2              |      |      |
| Plainfield.....                      | Maximum | 70    | 88    | 95    | 91    | 83 | 81 | 82    | 78 | 88 | 89 | 94 | 85    | 88  | 87  | 84 | 77 | 86 | 73 | 75 | 73    | 65 | 67    | 77    | 71    | 69    | 79 | 81    | 84    | 92    | 75                | 78                | 80.9              |      |      |
|                                      | Minimum | 64    | 66    | 71    | 70    | 64 | 62 | 67    | 61 | 57 | 60 | 69 | 69    | 68  | 68  | 69 | 66 | 64 | 67 | 61 | 57    | 56 | 56    | 59    | 59    | 61    | 61 | 56    | 59    | 65    | 63                | 48                | 62.3              |      |      |
| Ridgefield.....                      | Maximum | 70    | 88    | 94    | 89    | 84 | 82 | 81    | 77 | 88 | 86 | 92 | 89    | 84  | 85  | 85 | 82 | 74 | 83 | 70 | 72    | 72 | 64    | 64    | 69    | 75    | 72 | 68    | 79    | 82    | 86                | 91                | 80                | 76   | 80.0 |
|                                      | Minimum | 66    | 67    | 75    | 72    | 66 | 64 | 67    | 64 | 59 | 59 | 71 | 70    | 69  | 70  | 67 | 68 | 70 | 59 | 59 | 59    | 60 | 58    | 63    | 63    | 62    | 63 | 62    | 59    | 67    | 62                | 53                | 64.3              |      |      |
| Somerville.....                      | Maximum | 70    | 92    | 96    | 90    | 85 | 80 | 84    | 82 | 88 | 90 | 95 | 93    | 88  | 90  | 85 | 83 | 88 | 75 | 76 | 73    | 70 | ..... | 74    | 70    | ..... | 85 | 88    | 91    | 87    | 82                | 79                | 83.8 <sup>b</sup> |      |      |
|                                      | Minimum | 65    | 68    | 70    | 70    | 68 | 62 | 69    | 62 | 55 | 54 | 69 | 71    | 69  | 70  | 67 | 67 | 70 | 63 | 58 | 57    | 64 | 58    | 63    | 62    | 55    | 56 | 59    | 63    | ..... | 43                | 63.0 <sup>a</sup> |                   |      |      |
| South Orange.....                    | Maximum | 69    | 82    | 88    | 85    | 83 | 78 | 77    | 76 | 80 | 82 | 87 | 84    | 82  | 80  | 78 | 75 | 80 | 72 | 71 | 70    | 64 | 65    | 72    | 69    | 67    | 74 | 76    | 79    | 87    | 78                | 70                | 76.8              |      |      |
|                                      | Minimum | 67    | 62    | 74    | 73    | 69 | 65 | 74    | 66 | 60 | 64 | 69 | 70    | 70  | 66  | 67 | 70 | 61 | 62 | 63 | 58    | 59 | 64    | 66    | 66    | 66    | 67 | ..... | 62    | 54    | 65.7 <sup>b</sup> |                   |                   |      |      |
| Verona.....                          | Maximum | 69    | 85    | 91    | 87    | 79 | 80 | 78    | 74 | 82 | 83 | 89 | 83    | 85  | 82  | 80 | 73 | 81 | 68 | 71 | 70    | 62 | 65    | 73    | 70    | 66    | 76 | 78    | 81    | 88    | 76                | 71                | 77.3              |      |      |
|                                      | Minimum | 63    | 66    | 74    | 72    | 66 | 64 | 67    | 62 | 60 | 58 | 70 | 69    | 68  | 66  | 66 | 58 | 58 | 59 | 58 | 56    | 62 | 62    | 61    | 63    | 59    | 59 | 67    | 63    | 52    | 63.4              |                   |                   |      |      |
| New York, N. Y.....                  | Maximum | 69    | 88    | 92    | 88    | 82 | 70 | 80    | 75 | 84 | 87 | 90 | 83    | 87  | 84  | 81 | 75 | 84 | 75 | 72 | 70    | 64 | 67    | 73    | 72    | 71    | 76 | 79    | 89    | 90    | 79                | 72                | 79.1              |      |      |
|                                      | Minimum | 65    | 67    | 75    | 74    | 71 | 67 | 70    | 67 | 65 | 68 | 72 | 69    | 69  | 70  | 69 | 69 | 72 | 63 | 62 | 62    | 59 | 58    | 63    | 65    | 65    | 65 | 64    | 64    | 69    | 63                | 53                | 66.4              |      |      |
| The Southern Interior.               |         |       |       |       |       |    |    |       |    |    |    |    |       |     |     |    |    |    |    |    |       |    |       |       |       |       |    |       |       |       |                   |                   |                   |      |      |
| Belleplain.....                      | Maximum | 75    | 78    | 94    | 86    | 83 | 76 | 80    | 80 | 82 | 82 | 87 | 88    | 93  | 91  | 81 | 84 | 89 | 80 | 70 | 72    | 63 | 72    | 74    | 74    | 74    | 77 | 81    | 81    | 87    | 87                | 79                | 80.6              |      |      |
|                                      | Minimum | 65    | 67    | 68    | 72    | 64 | 64 | 69    | 60 | 48 | 51 | 63 | 69    | 70  | 68  | 67 | 68 | 70 | 66 | 63 | 60    | 52 | 57    | 60    | 55    | 62    | 63 | 51    | 55    | 62    | 65                | 45                | 61.9              |      |      |
| Bridgeton.....                       | Maximum | 82    | 95    | 96    | 91    | 90 | 88 | 90    | 81 | 86 | 83 | 97 | 95    | 101 | 101 | 79 | 90 | 91 | 87 | 81 | 79    | 73 | 76    | 89    | 84    | ..... | 82 | 81    | 86    | 90    | 82                | 76                | 86.7 <sup>a</sup> |      |      |
|                                      | Minimum | 65    | 68    | 74    | 76    | 76 | 67 | 72    | 56 | 56 | 67 | 59 | ..... | 73  | 70  | 69 | 69 | 68 | 63 | 61 | 59    | 59 | 59    | 58    | 59    | 59    | 59 | 59    | 56    | 67    | 69                | 52                | 64.3 <sup>b</sup> |      |      |
| Burlington.....                      | Maximum | 75    | 92    | 94    | 94    | 85 | 83 | 85    | 84 | 85 | 89 | 94 | 95    | 93  | 92  | 86 | 85 | 85 | 82 | 75 | 73    | 68 | 70    | 80    | 79    | 71    | 78 | 84    | 86    | 92    | 90                | 80                | 84.0              |      |      |
|                                      | Minimum | 66    | 72    | 73    | 73    | 70 | 68 | 70    | 68 | 70 | 67 | 75 | 69    | 71  | 68  | 70 | 72 | 66 | 62 | 62 | 62    | 62 | 60    | 66    | 59    | 66    | 64 | 58    | 63    | 68    | 7                 |                   |                   |      |      |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged

**Daily Evaporation (thousandths of an inch) and Wind Movement (miles)**

|                 |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|-----------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Pleasantville** | { Evaporation.... | .064 | .232 | .256 | .224 | .272 | .112 | .246 | .272 | .224 | .224 | .240 | .192 | .232 | .370 | .064 | .156 | .108 | *    | .210 | .208 | *    | .058 | .208 | .106 | .008 | .160 | .160 | .208 | .240 | .256 | .240  | 5.550 |
|                 | { Wind movement.  | .615 | .41  | .31  | .32  | .57  | .38  | .35  | .47  | 18   | 45   | 36   | 42   | 50   | 50   | 40   | 70   | 24   | 35   | 78   | 229  | 160  | 79   | 57   | 18   | 18   | 21   | 32   | 50   | 58   | 48   | 2.6   | 1.630 |
| Runyon.....     | { Evaporation.... | .05  | .050 | .180 | .180 | .190 | .180 | .160 | .210 | .180 | .170 | .180 | .160 | .240 | .140 | .050 | .190 | .035 | .040 | .120 | .160 | .160 | .020 | .020 | .020 | .080 | .150 | .140 | .140 | .230 | .180 | 4.030 |       |
|                 | { Wind movement.  | .18  | .16  | .28  | .26  | .21  | .25  | .12  | .28  | .30  | .26  | .25  | .31  | .23  | .18  | .21  | .28  | .25  | .25  | .41  | .22  | .35  | .98  | .48  | .28  | .9   | 7    | 11   | .27  | .29  | .35  | .21   | 8.40  |

Note: Evaporation determined by measuring amount returned to pan to maintain standard level, less precipitation.  
 \*\*Observations taken in the morning, and entered on preceding day.

\*\*Observations taken in the morning, and entered on preceding day.

\* Measurement included in next following



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI.

SEPTEMBER, 1926.

No. 9

### GENERAL SUMMARY.

The outstanding features of September weather in 1926 were the variable changes indicative of the approach of autumn. Temperatures ranged from 93° to 32° and frosts, and the rain varied from 4.7 inches in 24 hours to 1.5 inches for the whole month. Cloudiness, sunshine, and wind were not far from normal, except that the prevailing winds were from the northeast, instead from a westerly quarter as normally occurs.

During the period from the 16th to the 25th, temperatures were very continuously above normal, culminating in the highest extreme on the 25th, whereupon a sharp drop occurred, with the coldest day of the month following on the 27th. The skies were almost continuously bright and sunny from the 11th to the 22d, but rains were frequent before this period, and almost daily from the 23d to the close of the month. On the 6th excessive rain occurred in the area extending from Mercer County northeastward to the vicinity of the lower Hudson and New York Bay, and there was considerable loss and damage from overflow of water courses and resultant flooding, and great inconvenience on account of the day being a holiday (Labor Day).

Agriculture made very good progress toward maturity, and there were but few adverse weather conditions affecting crops. Storm warnings were displayed along shore on the 15th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 64.5°, which was 0.9° below normal. The highest temperature was 93° at Elizabeth and Indian Mills on the 25th, and the lowest, 32°, at Charlotteburg on the 27th. The greatest daily range of temperature was 43° at Layton and Charlotteburg on the 1st and 26th, respectively. The highest monthly mean temperature was 68.0° at Vineland, and the lowest, 60.4° at Charlotteburg.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.3°; Red Sandstone Plain, -1.7°; Southern Interior, -1.0°; Sea Coast, -0.4°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 4.18 inches, which was 0.52 inch above normal.

The greatest monthly precipitation was 7.09 inches, at New Brunswick, and the least, 1.53 inches at Atlantic City. The greatest amount of precipitation in any 24 consecutive hours was 4.67 inches at Plainfield on the 6th. The mean of the number of days on which 0.01 inch or more precipitation fell was 10, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -5.24 inches; Red Sandstone Plain, -0.86 inch; Southern Interior, -2.94 inches; Sea Coast, -1.79 inches.

### WIND.

The prevailing wind direction was from the northeast. The wind movement averaged 11 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive minutes, was 45 miles per hour from the north at Sandy Hook on the 26th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 14, which was 1 less than normal; partly cloudy, 6, or 2 less than normal; cloudy, 10, or 3 more than normal. The per cent of possible sunshine was 57, which was 11 per cent below normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.13 inches, which was 0.06 inch above normal. The highest reading was 30.41 inches at Verona on the 27th, and the lowest, 29.80 inches at Trenton on the 9th.

The mean stage of the Delaware River at Phillipsburg was 2.0 feet; and the highest, 4.8 feet on the 7th. At Trenton the mean stage was 1.1 feet, which was normal. The highest stage, 2.8 feet, occurred on the 8th.

Thunderstorms occurred on the 2d, 6th, 7th, 9th, 10th, 20th, 24th, 25th, and 26th. Light frost was reported on the 11th, 12th, and 14th, in the north portion of the State. Heavy frost was noted at Layton on the 1st.

### ERRATA.

March, 1925: Total precipitation for Dover 4.46 inches instead of 4.29, departure +0.47 instead of +0.30 inch.

June, 1925: Total precipitation for Layton, 3.52 instead of 3.32; departure -0.27 instead of -0.47 inch.

September, 1925: Total precipitation for South Orange 3.43 instead of 2.43; Dover, number of days with 0.01 inch or more 9 instead of 7.

November, 1925: Philadelphia, Pa., temperature departure, -0.3 instead of +1.6.

February, 1926: New Brunswick total snowfall 23.7 instead of 33.6 inches.

### COMPARATIVE DATA FOR SEPTEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 64.2        | 93      | 38     | 0.83          | 1.69     | 0.25  | .....       | .....         | .....  | .....                  |
| 1886..... | 66.9        | 95      | 36     | 1.13          | 1.76     | 0.86  | .....       | .....         | .....  | .....                  |
| 1887..... | 61.6        | 90      | 30     | 3.66          | 6.23     | 1.62  | .....       | .....         | .....  | .....                  |
| 1888..... | 67.1        | 84      | 29     | 7.09          | 10.65    | 3.75  | .....       | .....         | .....  | .....                  |
| 1889..... | 64.8        | 90      | 34     | 8.36          | 13.13    | 3.17  | .....       | .....         | .....  | .....                  |
| 1890..... | 64.4        | 91      | 33     | 4.75          | 8.61     | 2.59  | .....       | .....         | .....  | .....                  |
| 1891..... | 68.7        | 95      | 39     | 2.46          | 5.91     | 0.90  | 16          | 9             | 5      | 6                      |
| 1892..... | 64.2        | 90      | 33     | 1.81          | 3.78     | 1.02  | 15          | 11            | 4      | 6                      |
| 1893..... | 62.7        | 90      | 31     | 3.20          | 5.38     | 1.93  | 12          | 10            | 8      | 8                      |
| 1894..... | 68.8        | 97      | 31     | 7.46          | 11.65    | 3.69  | 10          | 10            | 10     | 8                      |
| 1895..... | 69.7        | 109     | 29     | 1.07          | 2.71     | 0.22  | 17          | 10            | 3      | 5                      |
| 1896..... | 65.1        | 95      | 30     | 4.37          | 8.74     | 2.26  | 19          | 7             | 4      | 5                      |
| 1897..... | 65.5        | 99      | 30     | 1.65          | 3.97     | 0.21  | 19          | 7             | 4      | 5                      |
| 1898..... | 68.6        | 100     | 31     | 2.00          | 3.87     | 0.65  | 17          | 8             | 5      | 6                      |
| 1899..... | 64.4        | 93      | 30     | 5.88          | 9.61     | 2.88  | 15          | 9             | 6      | 9                      |
| 1900..... | 69.9        | 98      | 32     | 2.86          | 7.37     | 1.09  | 14          | 10            | 6      | 6                      |
| 1901..... | 66.8        | 94      | 29     | 3.38          | 6.82     | 1.63  | 15          | 9             | 6      | 10                     |
| 1902..... | 64.6        | 93      | 30     | 5.65          | 8.95     | 3.11  | 11          | 7             | 12     | 13                     |
| 1903..... | 65.0        | 92      | 29     | 3.34          | 7.10     | 1.39  | 17          | 8             | 5      | 7                      |
| 1904..... | 64.8        | 93      | 23     | 4.79          | 10.08    | 0.89  | 14          | 10            | 6      | 7                      |
| 1905..... | 65.4        | 90      | 28     | 5.23          | 9.18     | 2.87  | 16          | 7             | 7      | 8                      |
| 1906..... | 68.9        | 94      | 33     | 2.19          | 4.66     | 0.75  | 15          | 9             | 6      | 7                      |
| 1907..... | 67.1        | 92      | 31     | 8.08          | 12.95    | 3.55  | 10          | 8             | 12     | 14                     |
| 1908..... | 65.7        | 90      | 29     | 2.09          | 4.13     | 0.95  | 11          | 10            | 9      | 8                      |
| 1909..... | 64.5        | 89      | 30     | 3.30          | 4.58     | 2.08  | 11          | 10            | 9      | 8                      |
| 1910..... | 67.3        | 97      | 32     | 2.39          | 3.97     | 1.01  | 12          | 10            | 8      | 6                      |
| 1911..... | 66.4        | 90      | 30     | 2.88          | 5.33     | 1.08  | 10          | 12            | 8      | 9                      |
| 1912..... | 65.9        | 87      | 28     | 4.47          | 6.76     | 2.68  | 13          | 7             | 11     | 10                     |
| 1913..... | 64.4        | 96      | 27     | 3.87          | 6.55     | 1.56  | 13          | 8             | 9      | 9                      |
| 1914..... | 64.0        | 99      | 24     | 0.37          | 1.64     | 0.14  | 21          | 6             | 3      | 3                      |
| 1915..... | 68.5        | 97      | 30     | 2.08          | 4.46     | 0.55  | 17          | 9             | 4      | 5                      |
| 1916..... | 65.2        | 98      | 31     | 2.84          | 5.29     | 1.29  | 20          | 7             | 7      | 6                      |
| 1917..... | 61.5        | 87      | 27     | 2.74          | 6.13     | 0.47  | 16          | 7             | 8      | 9                      |
| 1918..... | 62.2        | 90      | 29     | 3.84          | 6.00     | 2.66  | 14          | 8             | 8      | 8                      |
| 1919..... | 65.8        | 96      | 32     | 3.26          | 6.28     | 1.04  | 16          | 6             | 8      | 7                      |
| 1920..... | 66.8        | 90      | 30     | 3.87          | 8.53     | 1.67  | 17          | 8             | 5      | 8                      |
| 1921..... | 70.2        | 99      | 36     | 2.35          | 5.04     | 0.80  | 15          | 8             | 7      | 4                      |
| 1922..... | 66.7        | 95      | 27     | 2.26          | 5.22     | 0.59  | 19          | 5             | 6      | 7                      |
| 1923..... | 67.0        | 90      | 24     | 3.78          | 6.26     | 2.24  | 14          | 8             | 8      | 10                     |
| 1924..... | 62.2        | 99      | 29     | 5.42          | 8.44     | 2.47  | 13          | 8             | 8      | 7                      |
| 1925..... | 67.8        | 96      | 25     | 2.92          | 5.81     | 0.64  | 11          | 11            | 8      | 7                      |
| 1926..... | 64.5        | 93      | 32     | 4.18          | 7.09     | 1.53  | 14          | 6             | 10     | 10                     |



## Climatological Data for September, 1926

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                           |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                    |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Belvidere.....                       | Warren.....     | 289             | 35                      | 63.8 <sup>b</sup>            | -0.9                      | 88      | 25    | 41     | 27    | 39                       | 4.54  | +0.77                     | 1.63                 | 0                         | 11                           | 16    | 3          | 11                           | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                         |
| Charlotteburg.....                   | Passaic.....    | 719             | 34                      | 60.4 <sup>a</sup>            | -1.5                      | 86      | 25    | 32     | 27    | 43                       | 5.36  | +0.94                     | 1.57                 | 0                         | 11                           | 10    | 6          | 14                           | w.        |                                                                                                                           |
| Culvers Lakell.....                  | Sussex.....     | 848             | 25                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.74  | -0.80                     | 1.26                 | 0                         | 11                           | 17    | 3          | 10                           | e.        |                                                                                                                           |
| Dover.....                           | Morris.....     | 600             | 42                      | 61.4 <sup>i</sup>            | -0.8                      | 85      | 25    | 40     | 27    | .....                    | 4.79  | +0.70                     | 1.78                 | 0                         | 9                            | 5     | 14         | 11                           | .....     |                                                                                                                           |
| Layton.....                          | Sussex.....     | 480             | 25                      | 61.0                         | -1.3                      | 86      | 25    | 36     | 1     | 43                       | 3.64  | -0.28                     | 1.04                 | 0                         | 12                           | 15    | 3          | 12                           | e.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                     |
| Newton.....                          | Sussex.....     | 769             | 42                      | 62.8                         | -0.7                      | 87      | 25    | 42     | 1†    | 40                       | 4.99  | +1.18                     | 1.78                 | 0                         | 10                           | 14    | 3          | 13                           | sw.       |                                                                                                                           |
| Phillipsburg.....                    | Warren.....     | 363             | 43                      | 65.5 <sup>b</sup>            | +0.3                      | 90      | 25    | 42     | 28    | 36                       | 2.87  | -0.79                     | 1.12                 | 0                         | 7                            | 14    | 5          | 11                           | .....     |                                                                                                                           |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 62.4                         | -1.8                      | 87      | 25    | 38     | 11†   | 41                       | 3.54  | -0.36                     | 0.88                 | 0                         | 9                            | 13    | 7          | 10                           | sw.       |                                                                                                                           |
| Means and extremes.....              |                 |                 |                         | 62.5                         | -1.0                      | 90      | 25    | 32     | 27    | 43                       | 4.18  | +0.17                     | 1.78                 | 0                         | 10                           | 13    | 5          | 12                           | e.        |                                                                                                                           |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Bergen Pointll.....                  | Hudson.....     | 37              | 29                      | 66.2 <sup>a</sup>            | -0.2                      | 92      | 25    | 50     | 29    | 24                       | 6.75  | +3.22                     | 3.73                 | 0                         | 8                            | 6     | 14         | 10                           | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>L. B. Bonnett.                                                 |
| Boonton.....                         | Morris.....     | 400             | 36                      | 61.0                         | -2.6                      | 86      | 25    | 37     | 27    | 39                       | 5.79  | +1.66                     | 1.61                 | 0                         | 10                           | 15    | 0          | 15                           | ne.       |                                                                                                                           |
| Chatham.....                         | Morris.....     | 185             | 22                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 6.18  | -1.89                     | 2.38                 | 0                         | 11                           | 18    | 3          | 9                            | .....     |                                                                                                                           |
| Elizabeth.....                       | Union.....      | 45              | 47                      | 65.9 <sup>a</sup>            | -0.8                      | 93      | 25    | 43     | 27    | 36                       | 6.44  | +2.67                     | 2.24                 | 0                         | 12                           | 18    | 1          | 11                           | sw.       |                                                                                                                           |
| Flemington.....                      | Hunterdon.....  | 140             | 34                      | 65.2                         | -1.1                      | 90      | 25    | 44     | 27    | 37                       | 3.31  | -0.59                     | 0.82                 | 0                         | 12                           | 17    | 2          | 11                           | ne.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                          |
| Highwoodll.....                      | Bergen.....     | 90              | 38                      | 61.9                         | -1.8                      | 85      | 25    | 41     | 27    | 32                       | 4.11  | +0.19                     | 1.57                 | 0                         | 10                           | 13    | 3          | 14                           | nw.       |                                                                                                                           |
| Jersey City.....                     | Hudson.....     | 10              | 28                      | 65.8                         | -1.4                      | 91      | 25    | 50     | 27†   | 26                       | 6.08  | +2.73                     | 3.51                 | 0                         | 8                            | 12    | 11         | 7                            | e.        |                                                                                                                           |
| Lambertville.....                    | Hunterdon.....  | 370             | 39                      | 63.8                         | -2.0                      | 87      | 25    | 44     | 27    | 30                       | 5.48  | +1.59                     | 2.45                 | 0                         | 14                           | 14    | 4          | 12                           | e.        |                                                                                                                           |
| Little Falls.....                    | Passaic.....    | 180             | 23                      | 63.8                         | -0.3                      | 90      | 25    | 42     | 1†    | 37                       | 6.10  | +2.52                     | 1.94                 | 0                         | 11                           | 14    | 4          | 12                           | se.       | Passaic Consolid. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.    |
| New Brunswick.....                   | Middlesex.....  | 110             | 73                      | 65.0                         | -0.6                      | 89      | 25    | 41     | 12    | 35                       | 7.09  | +3.49                     | 3.40                 | 0                         | 12                           | 17    | 2          | 11                           | e.        |                                                                                                                           |
| New Milfordll.....                   | Bergen.....     | 9               | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 4.18  | .....                     | 1.62                 | 0                         | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Pateron.....                         | Passaic.....    | 80              | 55                      | 65.0                         | -1.2                      | 89      | 25    | 46     | 27    | 30                       | 5.31  | +1.18                     | 1.90                 | 0                         | 9                            | 16    | 12         | 2                            | ne.       |                                                                                                                           |
| Plainfield.....                      | Union.....      | 120             | 38                      | 62.9                         | -2.7                      | 90      | 25    | 42     | 1†    | 35                       | 6.86  | +2.49                     | 4.67                 | 0                         | 10                           | 11    | 8          | 11                           | ne.       |                                                                                                                           |
| Ridgefield.....                      | Bergen.....     | 80              | 9                       | 63.6                         | .....                     | 89      | 25    | 44     | 27    | 32                       | 4.23  | .....                     | 1.58                 | 0                         | 9                            | 16    | 4          | 10                           | ne.       | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach<br>Luther Davis.<br>Hackensack Water Co.                             |
| Somerville.....                      | Somerset.....   | 70              | 43                      | 65.0                         | -1.0                      | 92      | 25    | 41     | 27    | 38                       | 5.19  | +1.54                     | 2.00                 | 0                         | 8                            | 18    | 1          | 11                           | w.        |                                                                                                                           |
| South Orange.....                    | Essex.....      | 200             | 56                      | 63.1                         | -1.0                      | 83      | 25    | 45     | 29    | 26                       | 5.11  | +1.30                     | 1.36                 | 0                         | 8                            | 14    | 6          | 10                           | ne.       |                                                                                                                           |
| Verona.....                          | Essex.....      | 490             | .....                   | 61.5                         | .....                     | 85      | 25    | 43     | 27    | 29                       | 4.87  | .....                     | 1.55                 | 0                         | 8                            | 10    | 7          | 13                           | n.        |                                                                                                                           |
| Woodcliff Lakell.....                | Bergen.....     | 100             | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.98  | .....                     | 0.98                 | 0                         | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| New York, N. Y.....                  |                 | 365             | 56                      | 64.8                         | -2.0                      | 86      | 25    | 51     | 26    | 24                       | 5.51  | +1.92                     | 3.09                 | 0                         | 8                            | 9     | 10         | 11                           | e.        | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....              |                 |                 |                         | 64.0                         | -1.3                      | 93      | 25    | 37     | 27    | 39                       | 5.56  | +1.85                     | 4.67                 | 0                         | 10                           | 14    | 5          | 11                           | ne.       |                                                                                                                           |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Belleplain.....                      | Cape May.....   | 30              | 32                      | .....                        | .....                     | 88      | 25    | 38     | 12    | .....                    | 2.96  | -0.43                     | 0.97                 | 0                         | 9                            | ..... | .....      | .....                        | .....     | Thomas J. Durcli.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                     |
| Bridgeton.....                       | Cumberland..... | 90              | 45                      | 66.6                         | -1.6                      | 88      | 24†   | 44     | 27    | 33                       | 3.76  | +0.45                     | 1.33                 | 0                         | 9                            | 10    | 4          | 16                           | sw.       |                                                                                                                           |
| Burlington.....                      | Burlington..... | 12              | 40                      | 67.5                         | +0.7                      | 90      | 25    | 45     | 27    | 35                       | 4.91  | +1.40                     | 0.88                 | 0                         | 13                           | 10    | 10         | 10                           | sw.       |                                                                                                                           |
| Clayton.....                         | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.52  | -0.67                     | 0.99                 | 0                         | 7                            | 11    | 12         | 7                            | e.        | R. E. Montgomery.<br>Harvey M. Grover.<br>Frank M. Lawrence.<br>James M. Armstrong.                                       |
| Highstown.....                       | Mercer.....     | 120             | 32                      | 65.0 <sup>a</sup>            | -1.8                      | 90      | 25    | 40     | 27    | 37                       | 2.90  | -0.23                     | 1.02                 | 0                         | 12                           | 18    | 1          | 11                           | e.        |                                                                                                                           |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 65.7 <sup>a</sup>            | -0.6                      | 89      | 25    | 42     | 27    | .....                    | 2.79  | -1.03                     | 1.02                 | 0                         | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Indian Millsll.....                  | Burlington..... | 76              | 37                      | 66.2                         | +0.1                      | 93      | 25    | 40     | 27    | 39                       | 3.92  | +0.01                     | 1.02                 | 0                         | 10                           | 11    | 5          | 14                           | ne.       |                                                                                                                           |
| Lakewood.....                        | Ocean.....      | 54              | 22                      | 63.4                         | -1.2                      | 89      | 25    | 39     | 27    | 37                       | 2.74  | -0.05                     | 1.38                 | 0                         | 8                            | 13    | 4          | 13                           | ne.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                       |
| Moorestown.....                      | Burlington..... | 75              | 63                      | 66.7                         | +0.7                      | 91      | 25    | 44     | 27    | 32                       | 4.63  | +1.00                     | 1.35                 | 0                         | 10                           | 15    | 4          | 11                           | sw.       |                                                                                                                           |
| Northfieldll.....                    | Atlantic.....   | 25              | 19                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 1.79  | -0.71                     | 0.78                 | 0                         | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Pleasantvillell.....                 | Atlantic.....   | 26              | 28                      | 64.6                         | .....                     | 86      | 25    | 42     | 27    | 34                       | 1.80  | -1.32                     | 0.76                 | 0                         | 10                           | 14    | 12         | 4                            | ne.       |                                                                                                                           |
| Riverton.....                        | Burlington..... | .....           | .....                   | 64.6                         | .....                     | 89      | 25    | 44     | 26†   | 32                       | 5.46  | .....                     | 2.17                 | 0                         | 11                           | 16    | 7          | 7                            | ne.       | Japanese Bettle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. Sophie M. Austin<br>H. C. Himes |
| Runyonll.....                        | Middlesex.....  | 18              | 2                       | 63.2                         | .....                     | 90      | 25    | 35     | 1     | 39                       | 3.31  | .....                     | 1.03                 | 0                         | 10                           | 15    | 9          | 6                            | w.        |                                                                                                                           |
| Trenton.....                         | Mercer.....     | 190             | 54                      | 65.1                         | -1.8                      | 89      | 25    | 47     | 27    | 26                       | 4.57  | +0.98                     | 1.97                 | 0                         | 11                           | 9     | 8          | 13                           | sw.       |                                                                                                                           |
| Tuckerton.....                       | Ocean.....      | 23              | 33                      | .....                        | .....                     | 88      | 25    | 45     | 12†   | .....                    | 2.10  | -0.96                     | 1.15                 | 0                         | 7                            | 20    | 8          | 2                            | e.        |                                                                                                                           |
| Vineland.....                        | Cumberland..... | 109             | 57                      | 68.0                         | +1.0                      | 90      | 25    | 45     | 27    | 32                       | 3.13  | -0.56                     | 0.90                 | 0                         | 10                           | 13    | 9          | 8                            | e.        |                                                                                                                           |
| Philadelphia, Pa.....                |                 | 117             | 55                      | 67.6                         | -0.4                      | 89      | 25    | 51     | 27    | 24                       | 4.88  | +1.50                     | 1.84                 | 0                         | 10                           | 8     | 10         | 12                           | ne.       | U. S. Weather Bureau.                                                                                                     |
| Means and extremes.....              |                 |                 |                         | 65.6                         | -0.5                      | 93      | 25    | 35     | 1     | 39                       | 3.33  | -0.15                     | 2.17                 | 0                         | 10                           | 14    | 7          | 9                            | ne.       |                                                                                                                           |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                           |
| Asbury Park.....                     | Monmouth.....   | 22              | 37                      | 65.6                         | -1.2                      | 85      | 25    | 49     | 26†   | 28                       | 2.09  | -0.90                     | 0.95                 | 0                         | 8                            | 18    | 10         | 2                            | ne.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                            |
| Atlantic City.....                   | Atlantic.....   | 16              | 53                      | 67.2                         | +0.4                      | 81      | 13    | 51     | 26    | 22                       | 1.53  | -1.52                     | 0.58                 | 0                         | 7                            | 9     | 12         | 9                            | ne.       |                                                                                                                           |
| Cape May City.....                   | Cape May.....   | 17              | 42                      | 67.7                         | -1.3                      | 86      | 2     | 50     | 27    | 25                       | 1.54  | -1.46                     | 0.68                 | 0                         | 6                            | ..... | .....      | .....                        | .....     |                                                                                                                           |
| Sandy Hook.....                      | Monmouth.....   | 22              | 28                      | 65.8                         | -1.3                      | 86      | 25    | 53     | 27    | 20                       | 3.00  | -0.50                     | 1.44                 | 0                         | 11                           | 13    | 5          | 12                           | ne.       |                                                                                                                           |
| Means and extremes.....              |                 |                 |                         | 66.6                         | -0.8                      | 86      | 2†    | 49     | 26†   | 28                       | 2.04  | -1.10                     | 1.44                 | 0                         | 8                            | 13    | 9          | 8                            | ne.       |                                                                                                                           |
| For the State.....                   |                 |                 |                         | 64.5                         | -0.9                      | 93      | 25    | 32     | 27    | 43                       | 4.18  | +0.52                     | 4.67                 | 0                         | 10                           | 14    | 6          | 10                           | ne.       |                                                                                                                           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

‡ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. † Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Weehawken; Northfield is Pleasantville; Pleasantville and Runyon are Trenton.



Daily Precipitation for September, 1926

| Stations                                   | Drainage Basin  | Day of month |      |    |    |      |      |      |      |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     |      |     |     |     |     |     |     | Total |      |      |
|--------------------------------------------|-----------------|--------------|------|----|----|------|------|------|------|-----|------|----|----|----|----|----|----|-----|----|----|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-------|------|------|
|                                            |                 | 1            | 2    | 3  | 4  | 5    | 6    | 7    | 8    | 9   | 10   | 11 | 12 | 13 | 14 | 15 | 16 | 17  | 18 | 19 | 20 | 21 | 22  | 23  | 24  | 25   | 26  | 27  | 28  | 29  | 30  | 31  |       |      |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |    |    |      |      |      |      |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     |      |     |     |     |     |     |     |       |      |      |
| Belvidere.....                             | Delaware.....   | 1.63         |      |    |    | .82  | .47  | .10  |      | T.  |      |    |    | T. |    |    |    |     |    |    |    |    |     | .08 | .08 |      | .69 | .01 | .32 | .31 | .03 |     | 4.54  |      |      |
| Charlotteburg.....                         | Passaic.....    | 1.57         |      |    |    | *    | *    | 2.01 |      | .43 |      |    |    |    |    |    |    |     |    |    |    |    |     | .11 | .76 | *    | .38 | *   | .48 | *   |     |     | 5.36  |      |      |
| Culvers Lake.....                          | Delaware.....   | 1.26         |      |    |    | .82  | .58  | .05  |      | T.  | .03  |    |    |    |    |    |    |     |    |    |    |    |     | .02 | .08 |      | .58 | T.  | .10 | .20 | .02 |     | 3.74  |      |      |
| Dover.....                                 | Passaic.....    | 1.78         |      |    |    | 1.71 | .50  |      |      | .18 |      |    |    |    |    |    |    |     |    |    |    |    |     | .07 |     | *    |     | *   | .55 | *   |     |     | 4.79  |      |      |
| Layton.....                                | Delaware.....   | 1.04         |      |    |    | .94  | .31  | .03  |      | .01 | .02  |    |    |    |    |    |    | .08 |    |    |    |    |     |     | .04 |      | .70 |     | .26 | .20 | .01 |     | 3.64  |      |      |
| Newton.....                                | Delaware.....   | 1.78         |      |    |    | .93  | .58  | .10  | .17  | .03 |      |    |    |    |    |    |    |     |    |    |    |    |     | T.  | .08 | T.   | .84 |     | .25 | .29 | .02 |     | 4.99  |      |      |
| Phillipsburg.....                          | do.....         | 1.12         |      |    |    | .92  | .59  |      |      | .12 |      |    |    |    |    |    |    |     |    |    |    |    |     | .02 | T.  |      | T.  |     | .02 | T.  | T.  |     | 2.87  |      |      |
| Sussex.....                                | Hudson.....     | .88          |      |    |    | .79  | .44  | .10  |      |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .07 |      | .77 |     | .16 | .29 | .04 |     | 3.54  |      |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |    |    |      |      |      |      |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     |      |     |     |     |     |     |     |       |      |      |
| Bergen Point**.....                        | Coast.....      | 1.30         |      |    |    | .61  | 3.49 |      |      | .17 |      |    |    |    |    |    |    |     |    |    |    |    |     | .01 |     | .81  |     |     | .26 | .10 | T.  |     | 6.75  |      |      |
| Boonton   .....                            | Passaic.....    | .22          | 1.54 |    |    | .23  | 1.14 | 1.61 |      | .14 |      |    |    |    |    |    |    |     |    |    |    |    |     | .14 | T.  | .38  |     | T.  | .38 | .01 |     |     | 5.79  |      |      |
| Chatham  .....                             | do.....         | .28          | 1.47 |    |    | .09  | .88  | 2.38 |      | .23 |      |    |    |    |    |    |    |     |    |    |    |    |     | .03 | T.  | .24  |     | .04 | .51 | .03 |     |     | 6.18  |      |      |
| Elizabeth.....                             | Coast.....      | 1.26         | .03  |    |    | .40  | 1.11 | 2.24 |      | .23 |      |    |    |    |    |    |    |     |    |    |    |    |     | T.  | .02 | .68  | .06 | T.  | .03 | .37 | .01 |     |       | 6.44 |      |
| Flemington.....                            | Raritan.....    | .82          |      | T. |    | .41  | .29  | .39  |      | T.  | .26  |    |    |    |    |    |    |     |    |    |    |    |     | .10 | .18 | .02  | .09 | T.  | .09 | .31 | .35 |     |       | 3.31 |      |
| Highwood.....                              | Hackensack..... | 1.57         |      |    |    | .50  | .83  | .22  |      | .16 | .01  |    |    |    |    |    |    |     |    |    |    |    |     | .02 | .09 |      | .36 | T.  | .20 | .15 |     |     | 4.11  |      |      |
| Jersey City.....                           | Coast.....      | 1.31         |      |    |    | .26  | 3.51 |      |      | .14 |      |    |    |    |    |    |    |     |    |    |    |    |     | .01 | T.  | .55  | .03 | T.  | .08 | .19 | T.  |     |       | 6.08 |      |
| Lambertville.....                          | Delaware.....   | 1.33         | .03  | T. |    | .20  | 2.45 | .21  |      | .24 | .15  |    |    |    |    |    |    |     |    |    |    |    |     | .05 | .24 | .10  | .03 |     | .08 | .28 | .09 |     |       | 5.48 |      |
| Little Falls.    .....                     | Passaic.....    | .58          | 1.36 |    |    | .25  | 1.08 | 1.56 |      | .27 |      |    |    |    |    |    |    | T.  |    |    |    |    |     | .18 |     | .38  |     | .01 | .42 | .01 |     |     | 6.10  |      |      |
| New Brunswick.....                         | Raritan.....    | .82          | .09  |    |    | .25  | .50  | 3.40 |      | .20 |      |    |    |    |    |    |    |     |    |    |    |    |     | .10 | .01 | 1.23 | .04 | T.  | .06 | .39 | T.  |     |       | 7.09 |      |
| New Milford.**.....                        | Hackensack..... | 1.62         |      |    |    | .56  | .83  |      |      | .21 |      |    |    |    |    |    |    |     |    |    |    |    |     | .02 | .07 | .54  |     |     | .30 | .03 |     |     | 4.18  |      |      |
| Paterson.....                              | Passaic.....    | 1.90         |      |    |    | 1.07 | 1.00 |      |      | .03 | .34  |    |    |    |    |    |    |     |    |    |    |    |     | T.  | .15 |      | .40 | T.  | .12 | .30 |     |     | 5.31  |      |      |
| Plainfield.....                            | Raritan.....    | .92          |      |    |    | .49  | 4.67 |      |      | .30 |      |    |    |    |    |    |    |     |    |    |    |    |     | .01 | .02 | .04  |     | T.  | .14 | .26 | .01 |     |       | 6.86 |      |
| Ridgefield.....                            | Hackensack..... | 1.58         |      | T. |    | .60  | *    | .96  |      | .17 |      |    |    |    |    |    |    |     |    |    |    |    |     | .01 | .08 | .50  |     | T.  | .16 | .33 |     |     | 4.23  |      |      |
| Somerville.....                            | Raritan.....    | .66          |      |    |    | .51  | 2.00 | 1.12 |      | .28 |      |    |    |    |    |    |    |     |    |    |    |    |     | .04 |     |      |     | T.  | .14 | .22 |     |     | 5.19  |      |      |
| South Orange.....                          | Rahway.....     | 1.36         |      |    |    | .62  | 1.29 | .93  |      | .29 |      |    |    |    |    |    |    | T.  |    |    |    |    |     |     | T.  | T.   | .26 | T.  | .14 | .22 |     |     | 5.11  |      |      |
| Verona**.....                              | Passaic.....    | 1.55         |      |    |    | 1.12 | 1.25 |      |      | .21 |      |    |    |    |    |    |    |     | T. |    |    |    |     | .15 | T.  | .21  | T.  |     | .30 | .03 |     |     | 4.87  |      |      |
| Woodcliff Lake**.....                      | Hackensack..... | .91          |      |    |    | .47  | .98  |      |      | .15 |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     |      | .82 | .13 |     | .22 | .29 | .01 |       | 3.98 |      |
| New York, N. Y***.....                     | Coast.....      | 1.28         |      |    |    | .33  | 3.04 |      |      | .14 |      |    |    |    |    |    |    |     |    |    |    |    |     | .01 | T.  | .46  | T.  | T.  | .19 | .06 | T.  |     |       | 5.51 |      |
| <i>The Southern Interior.</i>              |                 |              |      |    |    |      |      |      |      |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     |      |     |     |     |     |     |     |       |      |      |
| Belleplain.....                            | Tuckahoe.....   | .96          |      |    |    |      | .97  |      |      | .47 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .10 | .19  | .03 |     | .02 | .17 | .05 |     |       | 2.96 |      |
| Bridgeton.....                             | Coast.....      | 1.33         |      |    |    |      | .89  |      |      | .72 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .06 | .33  | .06 |     | .16 | .19 | .02 |     |       | 3.76 |      |
| Burlington.....                            | Delaware.....   | .88          |      |    |    | .17  | .52  | .81  |      | .85 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .13 | .50  | .06 | .10 | T.  | .02 | .27 | .07 |       |      | 4.91 |
| Clayton.....                               | Delaware.....   |              |      |    |    |      |      |      |      |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     |      |     |     |     |     |     |     |       |      |      |
| Hammonton.....                             | Mullica.....    | .31          |      |    | T. | .99  |      |      |      | .55 |      |    |    |    |    |    |    |     |    |    |    |    |     | .30 | .05 | .02  |     | T.  | .30 |     |     |     |       | 2.82 |      |
| Hightstown.....                            | Raritan.....    | .69          | .05  |    |    | .12  | .21  | .81  |      | T.  | .50  |    |    |    |    |    |    |     |    |    |    |    |     |     | .16 | .02  | .07 |     | .03 | .23 | .01 |     |       | 2.90 |      |
| Imlaystown.....                            | Delaware.....   | 1.02         | .10  |    |    | .17  |      | .70  |      | .37 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .10 |      | .07 |     | .03 | .23 |     |     | 2.79  |      |      |
| Indian Mills.....                          | Mullica.....    | .92          |      |    |    | .08  | .12  | .78  |      | T.  | 1.02 |    |    |    |    |    |    |     |    |    |    |    |     |     | .32 | .25  | .06 |     | T.  | .30 | .07 |     |       | 3.92 |      |
| Lakewood.....                              | Metedeconk..... | 1.38         | .10  |    |    | .10  | .05  | .57  |      | .17 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .07 |      | T.  | T.  | .30 | T.  |     |     | 2.74  |      |      |
| Moorestown.....                            | Delaware.....   | 1.05         |      |    |    | .25  | 1.35 |      | 1.00 | .20 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .22 | .30  |     | T.  | .01 | .28 | .15 |     |       | 4.63 |      |
| Northfield.....                            | Coast.....      | .51          | .02  |    |    |      | .78  |      |      | .20 |      |    |    |    |    |    |    |     | T. |    |    |    |     |     | T.  | .05  | .08 |     |     | .15 |     |     |       | 1.79 |      |
| Pleasantville   .....                      | Coast.....      | .19          | .21  |    | T. |      | .76  |      |      | .24 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .12 | .06  | .03 |     | T.  | .12 | .07 |     |       | 1.80 |      |
| Riverton   .....                           | Delaware.....   | .32          | .55  |    |    | .11  | 2.17 | T.   |      | .85 | T.   |    |    |    |    |    |    |     |    |    |    |    | .01 | T.  |     | .70  | .11 | .07 |     | T.  | .49 | .08 |       | 5.46 |      |
| Runyon.....                                | Coast.....      | .89          |      |    |    | .41  | .30  | 1.03 |      | T.  |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .04 | .14  | .10 | .06 |     | .08 | .26 |     |       | 3.31 |      |
| Trenton***.....                            | Delaware.....   | 1.26         | T.   |    |    | .22  | 1.97 |      |      | .51 | .02  |    |    |    |    |    |    |     | T. |    |    |    |     |     | .23 | T.   | .14 | .01 | T.  | .13 | .07 | .01 |       | 4.57 |      |
| Tuckerton.....                             | Coast.....      | .30          |      |    |    |      | 1.15 |      |      | .15 |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     | .12  | *   |     | *   | .38 |     |     |       | 2.10 |      |
| Vineland.....                              | Maurice.....    | .85          | .01  |    |    |      | .90  |      |      | .59 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .24 | .19  | .03 | .04 |     | .05 | .23 |     |       | 3.13 |      |
| Phila., Pa***.....                         | Delaware.....   | 1.06         |      |    |    | 1.84 | T.   |      | .85  | .01 |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .38 | T.   | .18 |     |     | .16 | .13 | .17 |       | 4.88 |      |
| <i>The Sea Coast.</i>                      |                 |              |      |    |    |      |      |      |      |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     |      |     |     |     |     |     |     |       |      |      |
| Asbury Park.....                           | Coast.....      | .95          |      |    |    | .15  | T.   | .40  |      | .09 |      |    |    |    |    |    |    |     |    |    |    |    |     |     |     | .10  | T.  | .10 | T.  | .05 | .25 |     |       | 2.09 |      |
| Atlantic City***.....                      | do.....         | .52          |      |    |    | T.   | .58  |      | .10  |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     | T.  | T.   | .02 | .17 | T.  | .10 | .04 |     |       | 1.53 |      |
| Cape May City.....                         | do.....         | .36          | T.   |    |    |      | .68  |      | .42  |     |      |    |    |    |    |    |    |     |    |    |    |    |     |     | .01 | .03  | T.  | T.  | T.  | T.  | T.  |     |       | 1.54 |      |
| Sandy Hook***.....                         | do.....         | .77          |      |    |    | .17  | 1.44 |      | .14  |     |      |    |    |    |    |    |    |     | T. |    |    |    |     |     | .05 | .01  | .08 | .01 | .04 | .24 | .05 |     |       | 3.00 |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 30.12        | 30.35   | 27   | 29.83  | 2    | 17.2            | 42             | ne        | 3    | 81                                     | 72                                        | 80                                      | 60            |
| New York, N. Y.....   | 30.13        | 30.39   | 27   | 29.85  | 9    | 12.3            | 52             | nw        | 25   | 77                                     | 64                                        | 74                                      | 71            |
| Philadelphia, Pa..... | 30.13        | 30.41   | 27   | 29.83  | 9    | 7.5             | 34             | n.        | 26   | 82                                     | 69                                        | 76                                      | 55            |
| Ridgefield.....       | 30.13        | 30.40   | 27   | 29.85  | 9    |                 |                |           |      |                                        |                                           |                                         |               |
| Sandy Hook.....       | 30.12        | 30.37   | 27   | 29.81  | 9    | 13.6            | 45             | n.        | 26   | 77                                     | 67                                        | 78                                      | 59            |
| Trenton.....          | 30.13        | 30.39   | 27   | 29.80  | 9    | 9.4             | 31             | n.        | 26   | 80                                     | 63                                        | 78                                      | 52            |
| Verona.....           | 30.14        | 30.41   | 27   | 29.82  | 9    | 4.2             | 23             | sw.       | 25   | 89*                                    | .....                                     | 84                                      | .....         |

\* 6 a. m



## Daily Temperatures for September, 1926

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6     | 7  | 8     | 9  | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18 | 19 | 20 | 21 | 22    | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30                | 31                | Mean              |
|--------------------------------------|---------|----|----|----|----|-------|----|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|-------|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |       |    |       |    |       |       |       |       |       |       |       |       |    |    |    |    |       |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                       | Maximum | 81 | 67 | 77 | 65 | 62    | 72 | 82    | 81 | 76    | 77    | 80    | 81    | 75    | 75    | 84    | 72    | 77 | 79 | 80 | 76 | 74    | 82 | 88 | 80 | 56 | 53 | 57 | 61 | 73.9 <sup>b</sup> |                   |                   |
|                                      | Minimum | 42 | 55 | 52 | 54 | 56    | 59 | 62    | 50 | 59    | 54    | 42    | 46    | 61    | 42    | 49    | 61    | 62 | 50 | 55 | 52 | 63    | 68 | 69 | 48 | 41 | 48 | 48 | 55 | 53                | 53.7 <sup>a</sup> |                   |
| Charlotteburg.....                   | Maximum | 75 | 70 | 73 | 67 | 65    | 71 | 77    | 79 | 70    | 72    | 72    | 76    | 70    | 72    | 70    | 73    | 78 | 82 | 79 | 75 | 78    | 80 | 86 | 80 | 70 | 67 | 64 | 61 | 73.5 <sup>a</sup> |                   |                   |
|                                      | Minimum | 34 | 50 | 49 | 43 | 48    | 53 | 59    | 49 | 50    | 63    | 37    | 35    | 40    | 38    | 35    | 49    | 58 | 50 | 41 | 46 | 54    | 55 | 60 | 65 | 37 | 32 | 55 | 45 | 47.2 <sup>a</sup> |                   |                   |
| Dover.....                           | Maximum | 78 | 68 | 71 | 63 | 60    | 74 | 79    | 78 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 72 | 75 | 82 | 74 | 75    | 71 | 80 | 85 | 65 | 57 | 52 | 66 | 60                | 70.7 <sup>a</sup> |                   |
|                                      | Minimum | 41 | 55 | 51 | 49 | 56    | 58 | 57    | 48 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 52 | 48 | 54 | 51 | 49    | 62 | 66 | 62 | 44 | 40 | 48 | 48 | 53                | 52.0 <sup>a</sup> |                   |
| Layton.....                          | Maximum | 79 | 61 | 71 | 62 | 60    | 72 | 76    | 77 | 71    | 71    | 76    | 77    | 70    | 70    | 78    | 68    | 75 | 75 | 80 | 78 | 72    | 68 | 81 | 86 | 78 | 60 | 50 | 56 | 65                | 71.1              |                   |
|                                      | Minimum | 36 | 54 | 50 | 54 | 55    | 56 | 57    | 46 | 54    | 54    | 39    | 43    | 55    | 37    | 41    | 55    | 61 | 57 | 56 | 54 | 52    | 64 | 67 | 48 | 37 | 48 | 48 | 54 | 50.9              |                   |                   |
| Newton.....                          | Maximum | 79 | 64 | 75 | 66 | 63    | 79 | ..... | 76 | 81    | 79    | 78    | 76    | 76    | 83    | 77    | 77    | 77 | 77 | 83 | 76 | 75    | 77 | 83 | 87 | 72 | 55 | 55 | 58 | 62                | 73.3 <sup>a</sup> |                   |
|                                      | Minimum | 42 | 52 | 50 | 50 | 55    | 58 | 49    | 56 | 57    | 52    | 43    | 43    | 57    | 46    | 43    | 48    | 60 | 56 | 51 | 55 | 53    | 49 | 58 | 62 | 72 | 46 | 42 | 46 | 46                | 51.7              |                   |
| Phillipsburg.....                    | Maximum | 80 | 67 | 76 | 69 | ..... | 76 | 81    | 79 | 78    | 76    | 76    | 83    | 77    | 77    | 77    | 77    | 77 | 77 | 78 | 85 | 78    | 74 | 73 | 85 | 90 | 78 | 59 | 60 | 64                | 76.1 <sup>a</sup> |                   |
|                                      | Minimum | 44 | 57 | 56 | 56 | 58    | 63 | 58    | 52 | 61    | 53    | 47    | 53    | 52    | 51    | 52    | 55    | 63 | 57 | 54 | 56 | 56    | 53 | 64 | 69 | 46 | 44 | 42 | 51 | 56                | 54.9              |                   |
| Sussex.....                          | Maximum | 68 | 75 | 71 | 66 | 76    | 79 | 79    | 74 | 75    | 79    | 78    | 72    | 70    | 73    | 82    | 73    | 78 | 78 | 85 | 76 | 74    | 70 | 84 | 87 | 82 | 55 | 53 | 60 | 65                | 73.6 <sup>a</sup> |                   |
|                                      | Minimum | 43 | 53 | 50 | 49 | 56    | 57 | 72    | 46 | 54    | 53    | 38    | 42    | 60    | 40    | 40    | 47    | 61 | 55 | 45 | 51 | 58    | 45 | 59 | 54 | 69 | 49 | 38 | 47 | 47                | 51.1              |                   |
| The Red Sandstone Plain.             |         |    |    |    |    |       |    |       |    |       |       |       |       |       |       |       |       |    |    |    |    |       |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                    | Maximum | 77 | 71 | 76 | 68 | 64    | 77 | 82    | 80 | 81    | 75    | 72    | 77    | 75    | 69    | 71    | 79    | 75 | 71 | 77 | 84 | 73    | 79 | 72 | 85 | 92 | 77 | 58 | 58 | 61                | 73.9              |                   |
|                                      | Minimum | 61 | 61 | 56 | 56 | 61    | 61 | 62    | 59 | 62    | 61    | 52    | 59    | 62    | 51    | 51    | 61    | 61 | 51 | 55 | 60 | ..... | 64 | 71 | 76 | 56 | 52 | 52 | 50 | 56                | 58.6 <sup>b</sup> |                   |
| Boonton§§.....                       | Maximum | 73 | 61 | 75 | 67 | 64    | 75 | 80    | 80 | 76    | 74    | 79    | 78    | 73    | 70    | 73    | 82    | 74 | 77 | 75 | 85 | 76    | 74 | 71 | 83 | 86 | 66 | 55 | 52 | 60                | 63                | 72.7              |
|                                      | Minimum | 39 | 50 | 51 | 47 | 55    | 55 | 60    | 47 | 53    | 56    | 40    | 41    | 47    | 43    | 40    | 48    | 57 | 49 | 45 | 49 | 54    | 47 | 51 | 61 | 66 | 48 | 37 | 48 | 49                | 49.3              |                   |
| Elizabeth.....                       | Maximum | 80 | 78 | 76 | 72 | 66    | 81 | ..... | 83 | 82    | 83    | 77    | 80    | 77    | 76    | ..... | 84    | 77 | 76 | 80 | 88 | 80    | 75 | 84 | 93 | 75 | 59 | 56 | 61 | 64                | 76.5 <sup>b</sup> |                   |
|                                      | Minimum | 44 | 59 | 55 | 51 | 60    | 61 | 65    | 52 | 58    | 59    | 45    | 46    | 61    | 47    | 47    | 57    | 64 | 51 | 51 | 57 | 61    | 55 | 60 | 68 | 73 | 51 | 43 | 52 | 50                | 56                | 55.3              |
| Flemington.....                      | Maximum | 83 | 73 | 74 | 67 | 62    | 82 | 84    | 81 | 82    | 78    | 80    | 79    | 72    | 71    | 69    | 83    | 74 | 79 | 78 | 83 | 80    | 77 | 72 | 86 | 90 | 79 | 65 | 55 | 58                | 61                | 75.2              |
|                                      | Minimum | 46 | 59 | 56 | 54 | 57    | 61 | 66    | 53 | 61    | 58    | 45    | 46    | 49    | 48    | 46    | 55    | 62 | 58 | 52 | 55 | 62    | 54 | 62 | 68 | 72 | 50 | 44 | 51 | 50                | 55                | 55.2              |
| Highwood.....                        | Maximum | 75 | 62 | 70 | 67 | 63    | 76 | 77    | 73 | 75    | 73    | 71    | 73    | 71    | 66    | 68    | 75    | 69 | 69 | 73 | 79 | 71    | 74 | 70 | 82 | 85 | 75 | 55 | 54 | 60                | 62                | 70.4              |
|                                      | Minimum | 43 | 58 | 54 | 51 | 58    | 58 | 62    | 50 | 56    | 56    | 43    | 45    | 57    | 45    | 44    | 56    | 63 | 53 | 48 | 54 | 55    | 53 | 62 | 67 | 71 | 46 | 41 | 50 | 48                | 55                | 53.4              |
| Jersey City.....                     | Maximum | 77 | 67 | 71 | 66 | 62    | 77 | 82    | 77 | 80    | 74    | 74    | 76    | 73    | 71    | 69    | 80    | 72 | 73 | 76 | 85 | 76    | 75 | 71 | 85 | 91 | 77 | 59 | 57 | 60                | 64                | 73.2              |
|                                      | Minimum | 54 | 59 | 57 | 56 | 57    | 61 | 64    | 60 | 62    | 57    | 55    | 57    | 60    | 54    | 56    | 59    | 61 | 59 | 57 | 60 | 61    | 60 | 62 | 78 | 76 | 55 | 54 | 58 | 59                | 58                | 58.3              |
| Lambertville.....                    | Maximum | 77 | 63 | 71 | 63 | 61    | 82 | 78    | 78 | 80    | 73    | 75    | 77    | 72    | 68    | 70    | 79    | 72 | 75 | 76 | 83 | 78    | 76 | 75 | 85 | 87 | 76 | 55 | 54 | 58                | 59                | 72.5              |
|                                      | Minimum | 47 | 58 | 55 | 53 | 57    | 60 | 60    | 55 | 60    | 57    | 50    | 50    | 55    | 47    | 47    | 53    | 60 | 59 | 62 | 56 | 58    | 60 | 55 | 62 | 68 | 49 | 44 | 49 | 50                | 55                | 55.1              |
| Little Falls§§.....                  | Maximum | 79 | 63 | 75 | 70 | 70    | 79 | 81    | 80 | 80    | 77    | 79    | 78    | 75    | 72    | 72    | 68    | 70 | 79 | 72 | 75 | 76    | 78 | 77 | 85 | 89 | 77 | 57 | 54 | 61                | 63                | 74.6              |
|                                      | Minimum | 42 | 55 | 53 | 50 | 58    | 58 | 60    | 52 | 56    | 57    | 49    | 45    | 62    | 44    | 43    | 53    | 60 | 52 | 48 | 51 | 58    | 50 | 60 | 65 | 69 | 50 | 42 | 50 | 48                | 53                | 52.9              |
| New Brunswick.....                   | Maximum | 78 | 73 | 69 | 69 | 63    | 84 | 80    | 78 | 81    | 79    | 73    | 76    | 72    | 69    | 67    | 78    | 73 | 73 | 77 | 84 | 80    | 76 | 73 | 85 | 89 | 77 | 60 | 55 | 60                | 63                | 73.8              |
|                                      | Minimum | 46 | 60 | 50 | 54 | 59    | 61 | 68    | 55 | 60    | 59    | 47    | 41    | 61    | 48    | 43    | 58    | 63 | 54 | 55 | 57 | 62    | 55 | 61 | 68 | 71 | 52 | 46 | 51 | 51                | 55                | 56.1              |
| Paterson.....                        | Maximum | 79 | 72 | 74 | 70 | 65    | 77 | 80    | 77 | 77    | 76    | 76    | 78    | 77    | 70    | 72    | 80    | 72 | 75 | 78 | 84 | 77    | 78 | 70 | 83 | 89 | 78 | 56 | 55 | 60                | 63                | 73.9              |
|                                      | Minimum | 49 | 59 | 53 | 53 | 58    | 58 | 65    | 53 | 60    | 58    | 48    | ..... | 59    | 48    | 47    | 58    | 64 | 55 | 52 | 57 | 61    | 56 | 61 | 68 | 71 | 51 | 46 | 51 | 49                | 56                | 56.0 <sup>a</sup> |
| Plainfield.....                      | Maximum | 77 | 67 | 72 | 65 | 62    | 78 | 82    | 77 | 80    | 74    | 74    | 76    | 73    | 72    | 69    | 80    | 72 | 72 | 76 | 84 | 76    | 75 | 71 | 85 | 90 | 72 | 59 | 55 | 59                | 62                | 72.9              |
|                                      | Minimum | 42 | 57 | 55 | 50 | 59    | 59 | 60    | 51 | 56    | 58    | 45    | 44    | 59    | 44    | 44    | 50    | 58 | 50 | 49 | 51 | 60    | 51 | 58 | 61 | 70 | 50 | 42 | 50 | 50                | 53                | 52.9              |
| Ridgefield.....                      | Maximum | 78 | 65 | 73 | 68 | 61    | 79 | 82    | 79 | 76    | 75    | 76    | 76    | 73    | 68    | 70    | 81    | 72 | 75 | 78 | 84 | 77    | 75 | 70 | 84 | 89 | 70 | 57 | 55 | 61                | 64                | 73.0              |
|                                      | Minimum | 46 | 58 | 53 | 53 | 58    | 59 | 59    | 52 | 60    | 55    | 46    | 49    | 52    | 46    | 46    | 58    | 61 | 54 | 51 | 56 | 59    | 58 | 61 | 67 | 70 | 45 | 44 | 49 | 49                | 53                | 54.2              |
| Somerville.....                      | Maximum | 80 | 75 | 75 | 68 | 64    | 84 | 83    | 80 | 83    | 79    | 78    | 80    | 75    | 72    | 70    | 81    | 77 | 75 | 79 | 87 | 81    | 79 | 74 | 86 | 92 | 80 | 58 | 55 | 60                | 63                | 75.8              |
|                                      | Minimum | 42 | 58 | 56 | 51 | 59    | 60 | 65    | 51 | 58    | 59    | 44    | 44    | 59    | 47    | 44    | 54    | 61 | 53 | 50 | 53 | 62    | 52 | 60 | 68 | 71 | 52 | 41 | 51 | 50                | 55                | 54.3              |
| South Orange.....                    | Maximum | 72 | 68 | 68 | 64 | 62    | 74 | 76    | 72 | 75    | 74    | 70    | 72    | 69    | 64    | 66    | 74    | 70 | 69 | 72 | 78 | 75    | 72 | 70 | 80 | 83 | 76 | 63 | 54 | 58                | 60                | 70.0              |
|                                      | Minimum | 51 | 57 | 54 | 54 | 60    | 60 | 66    | 56 | 60    | 62    | 52    | 54    | 62    | 49    | 52    | 56    | 64 | 55 | 56 | 60 | 60    | 58 | 56 | 66 | 72 | 50 | 46 | 49 | 45                | 54                | 56.2              |
| Verona.....                          | Maximum | 74 | 63 | 69 | 65 | 61    | 76 | 77    | 73 | 76    | 71    | 71    | 73    | 70    | 65    | 67    | 75    | 70 | 71 | 74 | 80 | 72    | 73 | 69 | 81 | 85 | 60 | 51 | 51 | 58                | 61                | 69.5              |
|                                      | Minimum | 45 | 56 | 53 | 53 | 56    | 59 | 57    | 52 | 59    | 56    | 46    | 49    | 53    | 46    | 46    | 56    | 62 | 52 | 55 | 59 | 58    | 56 | 61 | 66 | 57 | 44 | 43 | 48 | 48                | 54                | 53.5              |
| New York, N. Y.....                  | Maximum | 75 | 66 | 71 | 67 | 62    | 75 | 78    | 76 | 77    | 72    | 73    | 72    | 72    | 67    | 67    | 77    | 71 | 73 | 74 | 82 | 73    | 73 | 70 | 8  |    |    |    |    |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI.

OCTOBER, 1926.

No. 10

### GENERAL SUMMARY.

October weather throughout New Jersey was not more than ordinarily stormy, and was in marked contrast to October 1925, which was the coldest on record. Stormy conditions were infrequent, and although there was a slight excess of quantity of rain, and frequency of occurrence, the general conditions for the month were mostly pleasant. Rain occurred at fairly regular intervals. Snow occurred a few times at high altitudes above the State, as observed by aviators.

A few warm days occurred early in the month and at occasional, infrequent intervals thereafter, and the month averaged slightly subnormal in warmth. The 30th was especially warm, being some 10° or more above normal, and was a pleasing contrast with the snowstorm on October 30th, a year ago.

On the 25th, with sea-level pressure under 29.10 inches, severe wind storms did considerable local damage at widely separate points. Electric poles and trees were blown over, insecure roofs and signs were damaged and windows broken, in the region from Newark to Paterson. In Camden roofs of several buildings were destroyed and trees uprooted. There was no certain evidence that either of these storms was of the tornado type.

The reaction from this storm period produced the coldest weather of the month on the 28th, when temperatures were very generally below freezing.

The Aurora on the evening of the 14th was attended by considerable electrical interference.

Storm warnings were displayed along the coast on the 24th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 53.1°, which was 1.8° below normal. The highest temperature was 90° at Indian Mills on the 4th, and the lowest, 17°, at Charlotteburg on the 28th. The greatest daily range of temperature was 48° at Runyon on the 12th. The highest monthly mean temperature was 57.6° at Vineland, and the lowest, 47.8° at Layton.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.4°; Red Sandstone Plain, -1.7°; Southern Interior, -1.1°; Sea Coast, -0.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 4.08 inches, which was 0.32 inch above normal. A few extreme northern stations reported flurries of snow.

The greatest monthly precipitation was 6.03 inches, at Runyon, and the least, 1.79 inches at Bridgeton. The greatest amount of precipitation in any 24 consecutive hours was 2.00 inches at Belvidere on the 25th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 3 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -4.20 inches; Red Sandstone Plain, -0.09 inch; Southern Interior, -3.25 inches; Sea Coast, -2.16 inches.

### WIND.

The prevailing wind direction was from the northwest. The

wind movement averaged 12 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 62 miles per hour from the southwest at Sandy Hook on the 25th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 2 less than normal; partly cloudy, 8, or normal; cloudy, 10, or 2 more than normal. The per cent of possible sunshine was 57, which was 6 per cent below normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.96 inches, which was 0.11 inch below normal. The highest reading was 30.44 inches on the 1st at Verona and the lowest, 29.07 inches on the 25th, at Sandy Hook.

The mean stage of the Delaware River at Phillipsburg was 3.3 feet, and the highest stage, 7.3 feet on the 26th. At Trenton the mean stage was 1.9 feet, which was 0.5 foot above normal. The highest stage, 4.0 feet, occurred on the 27th.

Thunderstorms were reported on the 2d, 6th, 13th, 24th, 25th, and 31st. A solar halo was observed on the 3d and a lunar halo on the 16th. The aurora was observed on the 14th, 15th and 16th. Dense fog occurred on the 4th, 5th, 15th, 22d, and 31st. Sleet was reported on the 18th and 20th. Killing frost occurred in several localities on the 8th, 9th, 10th, and 16th; over practically all portions of the State on the 22d, except around New York Bay when the first killing frost occurred on the 27th.

### COMPARATIVE DATA FOR OCTOBER

| Year | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885 | 54.2        | 82      | 29     | 4.20          | 5.85     | 2.91  | .....       | .....         | .....  | .....                  |
| 1886 | 55.6        | 88      | 21     | 3.22          | 8.16     | 2.02  | .....       | .....         | .....  | .....                  |
| 1887 | 52.3        | 89      | 21     | 2.61          | 5.00     | 1.58  | .....       | .....         | .....  | 7                      |
| 1888 | 49.2        | 73      | 25     | 4.73          | 7.00     | 2.97  | .....       | .....         | .....  | 10                     |
| 1889 | 50.8        | 82      | 23     | 3.80          | 5.03     | 2.42  | .....       | .....         | .....  | 12                     |
| 1890 | 53.9        | 81      | 24     | 6.33          | 10.18    | 3.40  | 9           | 8             | 14     | 13                     |
| 1891 | 52.8        | 92      | 18     | 3.44          | 5.57     | 1.88  | 11          | 11            | 9      | 8                      |
| 1892 | 53.6        | 85      | 21     | 0.82          | 1.09     | 0.04  | 14          | 12            | 5      | 4                      |
| 1893 | 55.2        | 85      | 17     | 4.22          | 6.59     | 1.74  | 15          | 7             | 9      | 7                      |
| 1894 | 55.3        | 87      | 27     | 5.67          | 8.23     | 3.90  | 12          | 7             | 12     | 10                     |
| 1895 | 49.9        | 83      | 18     | 3.60          | 5.53     | 1.62  | 19          | 7             | 5      | 5                      |
| 1896 | 51.5        | 82      | 21     | 2.24          | 4.58     | 1.72  | 11          | 8             | 12     | 8                      |
| 1897 | 55.8        | 95      | 22     | 2.43          | 6.49     | 0.87  | 14          | 8             | 9      | 7                      |
| 1898 | 56.5        | 88      | 24     | 5.76          | 8.42     | 3.92  | 13          | 9             | 9      | 10                     |
| 1899 | 56.6        | 86      | 18     | 2.72          | 4.65     | 1.07  | 13          | 10            | 8      | 6                      |
| 1900 | 59.9        | 92      | 19     | 3.70          | 6.59     | 1.47  | 10          | 8             | 13     | 10                     |
| 1901 | 54.4        | 82      | 21     | 1.93          | 4.45     | 0.87  | 17          | 8             | 6      | 4                      |
| 1902 | 56.0        | 80      | 20     | 6.39          | 9.35     | 3.82  | 15          | 7             | 9      | 8                      |
| 1903 | 55.9        | 86      | 24     | 8.82          | 16.19    | 4.17  | 13          | 9             | 9      | 8                      |
| 1904 | 51.9        | 89      | 15     | 3.78          | 7.01     | 1.50  | 20          | 6             | 5      | 5                      |
| 1905 | 55.5        | 90      | 17     | 2.71          | 4.83     | 0.75  | 18          | 7             | 6      | 7                      |
| 1906 | 55.0        | 80      | 11     | 4.46          | 7.14     | 2.66  | 8           | 9             | 14     | 11                     |
| 1907 | 50.6        | 80      | 18     | 4.46          | 7.18     | 2.70  | 22          | 5             | 4      | 7                      |
| 1908 | 57.3        | 92      | 19     | 2.71          | 5.14     | 1.30  | 15          | 5             | 11     | 8                      |
| 1909 | 51.2        | 84      | 18     | 1.18          | 1.82     | 0.40  | 17          | 7             | 7      | 8                      |
| 1910 | 57.2        | 90      | 18     | 3.15          | 5.55     | 1.55  | 15          | 8             | 8      | 7                      |
| 1911 | 53.9        | 80      | 18     | 5.49          | 8.23     | 2.61  | 10          | 9             | 12     | 12                     |
| 1912 | 57.0        | 88      | 25     | 3.30          | 6.95     | 1.72  | 17          | 8             | 6      | 5                      |
| 1913 | 57.8        | 83      | 25     | 7.79          | 13.84    | 2.70  | 12          | 9             | 10     | 11                     |
| 1914 | 58.1        | 88      | 19     | 1.99          | 3.08     | 0.90  | 13          | 9             | 9      | 5                      |
| 1915 | 58.1        | 84      | 23     | 3.03          | 5.13     | 1.89  | 17          | 7             | 7      | 9                      |
| 1916 | 56.2        | 92      | 23     | 1.37          | 2.38     | 0.51  | 18          | 8             | 5      | 4                      |
| 1917 | 50.7        | 84      | 22     | 6.99          | 9.74     | 4.28  | 15          | 8             | 8      | 10                     |
| 1918 | 57.0        | 84      | 22     | 1.25          | 2.36     | 0.74  | 16          | 9             | 6      | 8                      |
| 1919 | 59.0        | 92      | 25     | 3.43          | 4.97     | 2.01  | 9           | 8             | 14     | 13                     |
| 1920 | 59.0        | 87      | 28     | 1.80          | 4.53     | 0.55  | 20          | 5             | 6      | 5                      |
| 1921 | 54.1        | 82      | 16     | 0.97          | 2.18     | 0.33  | 18          | 7             | 6      | 5                      |
| 1922 | 56.6        | 92      | 18     | 1.48          | 2.70     | 0.55  | 19          | 6             | 6      | 7                      |
| 1923 | 53.9        | 81      | 21     | 4.25          | 6.37     | 2.35  | 16          | 8             | 7      | 8                      |
| 1924 | 54.4        | 84      | 16     | 0.81          | 2.76     | T     | 23          | 6             | 2      | 1                      |
| 1925 | 49.1        | 84      | 12     | 4.59          | 5.78     | 3.38  | 9           | 9             | 13     | 11                     |
| 1926 | 53.1        | 90      | 17     | 4.08          | 6.03     | 1.79  | 13          | 8             | 10     | 11                     |



## Climatological Data for October, 1926

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers                                                                                                                   |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |                                                                                                                             |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                             |
| Belvidere.....                       | Warren.....     | 289             | 35                      | 53.6 <sup>f</sup>            | -0.2                      | 87      | 5    | 27     | 26   | ....                     | 5.60  | +1.93                     | 2.00                 | T.                        | 12                           | ....  | ....       | ....                         | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                           |
| Charlotteburg††                      | Passaic.....    | 719             | 34                      | 48.3                         | -3.3                      | 80      | 4    | 17     | 28   | 43                       | 5.42  | +0.95                     | 1.09                 | 0                         | 10                           | 6     | 4          | 21                           |                                                                                                                             |
| Culvers Lake††                       | Sussex.....     | 848             | 25                      | 50.5                         | -1.4                      | 84      | 5    | 26     | 28   | ....                     | 4.62  | +0.44                     | 1.26                 | 0.1                       | 13                           | 13    | 10         | 8                            |                                                                                                                             |
| Dover.....                           | Morris.....     | 600             | 42                      | 49.6 <sup>a</sup>            | -1.7                      | 81      | 5    | 23     | 26   | 33                       | 5.74  | +1.67                     | 1.90                 | 0                         | 11                           | 5     | 16         | 10                           |                                                                                                                             |
| Layton.....                          | Sussex.....     | 480             | 25                      | 47.8 <sup>b</sup>            | -3.7                      | 84      | 5    | 21     | 26†  | 37                       | 4.12  | +0.50                     | 1.26                 | T.                        | 12                           | 15    | 2          | 14                           | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                        |
| Newton.....                          | Warren.....     | 769             | 42                      | 51.3 <sup>d</sup>            | -1.4                      | 84      | 5    | 26     | 27†  | ....                     | 5     | ....                      | ....                 | T.                        | 11                           | 13    | 8          | 10                           |                                                                                                                             |
| Phillipsburg.....                    | Sussex.....     | 363             | 43                      | 52.5                         | -1.4                      | 85      | 4†   | 27     | 27†  | 34                       | ....  | ....                      | ....                 | 0                         | ....                         | 13    | 9          | 9                            |                                                                                                                             |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 50.4 <sup>e</sup>            | -2.8                      | 85      | 4    | 20     | 28   | 41                       | 4.18  | +0.74                     | 1.18                 | 0                         | 10                           | 15    | 7          | 9                            |                                                                                                                             |
| Means and extremes...                |                 |                 |                         | 50.5                         | -2.1                      | 87      | 5    | 17     | 28   | 43                       | 4.95  | +1.04                     | 2.00                 | T.                        | 11                           | 11    | 8          | 12                           | w.                                                                                                                          |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                             |
| Bergen Point††                       | Hudson.....     | 37              | 29                      | 55.0 <sup>a</sup>            | -1.2                      | 85      | 5    | 32     | 27†  | 30                       | 4.89  | +0.22                     | 1.25                 | 0                         | 9                            | 7     | 15         | 9                            | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com.                                           |
| Boonton.....                         | Morris.....     | 400             | 36                      | 49.5                         | -3.3                      | 84      | 5    | 23     | 28   | 38                       | 4.71  | +0.80                     | 1.81                 | 0                         | 11                           | 16    | 0          | 15                           |                                                                                                                             |
| Chatham.....                         | Morris.....     | 185             | 22                      | 50.5                         | -2.9                      | 84      | 5    | 23     | 28   | 38                       | 4.70  | +0.49                     | 1.20                 | 0                         | 13                           | 17    | 5          | 9                            |                                                                                                                             |
| Elizabeth.....                       | Union.....      | 45              | 47                      | 54.4                         | -1.0                      | 88      | 5    | 27     | 27†  | 38                       | 4.52  | +0.63                     | 0.99                 | 0                         | 8                            | 5     | 15         | 11                           |                                                                                                                             |
| Flemington.....                      | Hunterdon.....  | 140             | 40                      | 53.4                         | -2.6                      | 87      | 4    | 27     | 28   | 37                       | 4.21  | +0.55                     | 1.06                 | 0                         | 9                            | 17    | 4          | 10                           | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                            |
| Highwood††                           | Bergen.....     | 90              | 38                      | 50.5                         | -2.9                      | 79      | 5    | 23     | 28   | 35                       | 4.04  | -0.38                     | 0.90                 | 0                         | 10                           | 13    | 4          | 14                           |                                                                                                                             |
| Jersey City.....                     | Hudson.....     | 10              | 28                      | 54.7                         | -1.6                      | 82      | 3†   | 33     | 26   | 29                       | 5.39  | +1.71                     | 1.90                 | 0                         | 10                           | 8     | 10         | 13                           |                                                                                                                             |
| Lambertville.....                    | Hunterdon.....  | 370             | 39                      | 52.0                         | -2.6                      | 83      | 4    | 29     | 27   | 27                       | 5.14  | +1.66                     | 1.33                 | 0                         | 15                           | 16    | 7          | 8                            |                                                                                                                             |
| Little Falls.....                    | Passaic.....    | 180             | 23                      | 52.0                         | -2.9                      | 85      | 5    | 25     | 28   | 37                       | 4.47  | -0.04                     | 1.57                 | 0                         | 15                           | 13    | 13         | 5                            | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.        |
| New Brunswick.....                   | Middlesex.....  | 110             | 73                      | 53.2                         | -1.6                      | 86      | 5    | 29     | 22†  | 32                       | 5.28  | +1.70                     | 1.44                 | 0                         | 10                           | 15    | 8          | 8                            |                                                                                                                             |
| New Milford††                        | Bergen.....     | 9               | 8                       | 50.5                         | -2.9                      | 84      | 5    | 23     | 28   | 35                       | 4.04  | -0.38                     | 0.90                 | 0                         | 10                           | 13    | 4          | 14                           |                                                                                                                             |
| Paterson.....                        | Passaic.....    | 80              | 55                      | 53.3 <sup>a</sup>            | -1.9                      | 85      | 5    | 30     | 27   | 31                       | 4.51  | ....                      | 1.21                 | 0                         | 11                           | ....  | ....       | ....                         |                                                                                                                             |
| Plainfield.....                      | Union.....      | 120             | 38                      | 51.6                         | -2.6                      | 86      | 5    | 24     | 28   | 37                       | 4.44  | +0.29                     | 0.97                 | 0                         | 11                           | 11    | 9          | 11                           | nw.                                                                                                                         |
| Ridgefield.....                      | Bergen.....     | 80              | 9                       | 51.7                         | ....                      | 81      | 5    | 28     | 28   | 33                       | 3.67  | ....                      | 0.80                 | 0                         | 10                           | 10    | 8          | 13                           | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach.<br>Luther Davis.<br>Hackensack Water Co.                              |
| Somerville.....                      | Somerset.....   | 70              | 43                      | 52.5                         | -1.8                      | 89      | 5    | 24     | 27†  | 40                       | 4.34  | +0.90                     | 1.12                 | 0                         | 9                            | 20    | 3          | 8                            |                                                                                                                             |
| South Orange.....                    | Essex.....      | 200             | 56                      | 54.4†                        | +1.0                      | 81      | 5    | 32     | 26   | 33                       | 5.32  | +1.48                     | 1.30                 | 0                         | 10                           | 11    | 10         | 10                           |                                                                                                                             |
| Verona.....                          | Essex.....      | 490             | ....                    | 50.8                         | ....                      | 81      | 5    | 29     | 27†  | 27                       | 4.60  | ....                      | 1.04                 | 0                         | 12                           | 9     | 13         | 9                            |                                                                                                                             |
| Woodcliff Lake††                     | Bergen.....     | 100             | 8                       | 51.7                         | ....                      | 81      | 5    | 29     | 27†  | 27                       | 4.51  | ....                      | 1.30                 | 0                         | 10                           | ....  | ....       | ....                         |                                                                                                                             |
| New York, N. Y.....                  |                 | 365             | 56                      | 54.2                         | -2.1                      | 80      | 3    | 34     | 26   | 28                       | 5.11  | +1.40                     | 1.78                 | 0                         | 9                            | 8     | 9          | 14                           | nw.                                                                                                                         |
| Means and extremes...                |                 |                 |                         | 52.6                         | -1.9                      | 89      | 5    | 23     | 28   | 40                       | 4.63  | +0.77                     | 1.90                 | 0                         | 11                           | 13    | 8          | 10                           | nw.                                                                                                                         |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                             |
| Belleplain.....                      | Cape May.....   | 30              | 32                      | 52.8 <sup>d</sup>            | -3.5                      | 87      | 4    | 19     | 28   | 41                       | 2.13  | -1.29                     | 0.87                 | 0                         | 13                           | 15    | 6          | 10                           | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                       |
| Bridgeton.....                       | Cumberland..... | 90              | 45                      | 55.0                         | -2.4                      | 87      | 4    | 25     | 27†  | 35                       | 1.79  | -1.80                     | 0.60                 | 0                         | 9                            | 11    | 6          | 14                           |                                                                                                                             |
| Burlington.....                      | Burlington..... | 12              | 40                      | 55.1                         | -3.1                      | 86      | 4†   | 26     | 28   | 33                       | 3.82  | +0.17                     | 1.41                 | 0                         | 11                           | 12    | 10         | 9                            |                                                                                                                             |
| Clayton.....                         | Gloucester..... | 130             | 30                      | 51.6                         | -2.6                      | 86      | 5    | 24     | 28   | 37                       | 4.44  | +0.29                     | 0.97                 | 0                         | 11                           | 11    | 9          | 11                           |                                                                                                                             |
| Hammononton.....                     | Atlantic.....   | 103             | 24                      | 53.2                         | -1.9                      | 88      | 4†   | 23     | 26†  | 41                       | 4.66  | +0.95                     | 1.30                 | 0                         | 10                           | 15    | 7          | 9                            | R. E. Montgomery.<br>Harvey M. Grover.<br>Frank M. Lawrence.<br>James M. Armstrong.                                         |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 53.3                         | +1.9                      | 88      | 5    | 25     | 28   | ....                     | 5     | ....                      | ....                 | 0                         | ....                         | ....  | ....       | ....                         |                                                                                                                             |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 52.8 <sup>k</sup>            | -2.3                      | 87      | 5    | 25     | 28   | ....                     | 4     | ....                      | ....                 | 0                         | ....                         | ....  | ....       | ....                         |                                                                                                                             |
| Indian Mills††                       | Burlington..... | 76              | 37                      | 54.2                         | -1.3                      | 90      | 4    | 24     | 27†  | 40                       | 2.93  | -0.51                     | 0.80                 | 0                         | 10                           | 9     | 12         | 10                           |                                                                                                                             |
| Lakewood.....                        | Ocean.....      | 54              | 22                      | 52.6                         | -2.5                      | 83      | 5    | 24     | 27†  | 34                       | 3.51  | -0.08                     | 0.70                 | 0                         | 9                            | 16    | 4          | 11                           | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                         |
| Moorestown.....                      | Burlington..... | 75              | 63                      | 55.4 <sup>a</sup>            | +0.7                      | 89      | 4    | 26     | 27   | 36                       | 4.22  | +0.65                     | 1.50                 | 0                         | 9                            | 13    | 8          | 10                           |                                                                                                                             |
| Northfield††                         | Atlantic.....   | 25              | 19                      | 54.5                         | ....                      | 82      | 3    | 25     | 22†  | 42                       | 2.11  | -0.67                     | 0.70                 | 0                         | 9                            | ....  | ....       | ....                         |                                                                                                                             |
| Pleasantville††                      | Atlantic.....   | 26              | 28                      | 54.5                         | ....                      | 82      | 3    | 25     | 22†  | 42                       | 2.27  | -1.17                     | 1.07                 | 0                         | 9                            | 16    | 10         | 5                            |                                                                                                                             |
| Riverton.....                        | Burlington..... | ....            | ....                    | 53.2                         | ....                      | 86      | 4    | 27     | 28   | 33                       | 2.89  | ....                      | 1.02                 | 0                         | 11                           | 15    | 6          | 10                           | Japanese Beetle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Runyon††                             | Middlesex.....  | 18              | 2                       | 52.2 <sup>e</sup>            | ....                      | 88      | 5    | 18     | 28   | 48                       | 6.03  | ....                      | 1.78                 | 0                         | 11                           | 17    | 9          | 5                            |                                                                                                                             |
| Trenton.....                         | Mercer.....     | 190             | 54                      | 54.3                         | -1.3                      | 85      | 5    | 33     | 26   | 30                       | 4.09  | +0.68                     | 1.53                 | 0                         | 11                           | 11    | 11         | 9                            |                                                                                                                             |
| Tuckerton.....                       | Ocean.....      | 23              | 33                      | 54.3                         | -1.3                      | 85      | 5    | 33     | 26   | 30                       | 3.95  | +0.42                     | 1.40                 | 0                         | 11                           | ....  | ....       | ....                         |                                                                                                                             |
| Vineland.....                        | Cumberland..... | 109             | 57                      | 57.6 <sup>f</sup>            | +1.6                      | 87      | 4    | ....   | .... | ....                     | 2.32  | -1.02                     | 0.55                 | 0                         | 9                            | ....  | ....       | ....                         |                                                                                                                             |
| Philadelphia, Pa.....                |                 | 117             | 55                      | 57.0                         | -0.8                      | 86      | 4    | 36     | 26   | 29                       | 4.11  | +1.01                     | 1.13                 | 0                         | 12                           | 9     | 11         | 11                           | sw.                                                                                                                         |
| Means and extremes...                |                 |                 |                         | 54.1                         | -1.6                      | 90      | 4    | 18     | 28   | 48                       | 3.34  | -0.31                     | 1.78                 | 0                         | 10                           | 14    | 8          | 9                            | nw.                                                                                                                         |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |                                                                                                                             |
| Asbury Park.....                     | Monmouth.....   | 22              | 37                      | 54.6 <sup>a</sup>            | -1.2                      | 80      | 3    | 34     | 28   | 26                       | 3.55  | -0.16                     | 0.75                 | 0                         | 10                           | 21    | 2          | 8                            | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                              |
| Atlantic City.....                   | Atlantic.....   | 16              | 53                      | 56.8                         | -0.1                      | 81      | 3    | 35     | 28   | 27                       | 2.90  | -0.40                     | 1.24                 | 0                         | 9                            | 12    | 9          | 10                           |                                                                                                                             |
| Cape May City.....                   | Cape May.....   | 17              | 42                      | 57.4                         | -2.2                      | 84      | 3    | 35     | 27   | 30                       | 1.95  | -1.35                     | 0.66                 | 0                         | 8                            | ....  | ....       | ....                         |                                                                                                                             |
| Sandy Hook.....                      | Monmouth.....   | 22              | 28                      | 55.1                         | -1.9                      | 77      | 5    | 36     | 26   | 27                       | 3.68  | +0.43                     | 1.25                 | 0                         | 11                           | 9     | 10         | 12                           |                                                                                                                             |
| Means and extremes...                |                 |                 |                         | 56.0                         | -1.4                      | 84      | 3    | 34     | 28   | 30                       | 3.02  | -0.37                     | 1.25                 | 0                         | 10                           | 14    | 7          | 10                           | nw.                                                                                                                         |
| For the State.....                   |                 |                 |                         | 53.1                         | -1.8                      | 90      | 4    | 17     | 28   | 48                       | 4.08  | +0.32                     | 2.00                 | 0                         | 11                           | 13    | 8          | 10                           | nw.                                                                                                                         |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for October, 1926

| Stations                                   | Drainage Basin  | Day of month |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      | Total |      |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|-----|------|-----|----|---|-----|-----|----|-----|-----|----|----|-----|-----|------|------|-----|----|-----|-----|------|------|----|----|-----|-----|------|-------|------|
|                                            |                 | 1            | 2   | 3   | 4   | 5   | 6    | 7   | 8  | 9 | 10  | 11  | 12 | 13  | 14  | 15 | 16 | 17  | 18  | 19   | 20   | 21  | 22 | 23  | 24  | 25   | 26   | 27 | 28 | 29  | 30  | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      |       |      |
| Belvidere.....                             | Delaware.....   |              | .11 |     |     |     | .65  |     |    |   | .08 | .22 |    | .25 | .02 |    |    | .20 | .39 |      | 1.01 |     |    |     |     | .17  | 2.00 |    |    |     |     | .50  | 5.60  |      |
| Charlotteburg.....                         | Passaic.....    |              | .07 |     |     |     | .43  |     |    |   | .18 |     |    | .19 |     |    |    | .46 | .25 |      | 1.09 |     |    |     |     | *    | 2.19 |    |    |     |     | .56  | 5.42  |      |
| Culvers Lake.....                          | Delaware.....   |              | .05 |     |     |     | 1.00 |     |    |   | .10 | .02 |    | .05 | .02 |    |    | .28 | .45 |      | .80  | .09 |    |     |     | .15  | 1.26 |    |    |     |     | .35  | 4.62  |      |
| Dover.....                                 | Passaic.....    |              | .05 |     |     |     | .62  |     |    |   | .38 |     |    | .25 |     |    |    | .54 | .28 |      | 1.04 |     |    |     |     | *    | 1.90 |    |    |     | .10 | .58  | 5.74  |      |
| Layton.....                                | Delaware.....   |              | .03 |     |     |     | 1.04 |     |    |   | .16 | .01 |    | .03 |     |    |    | .11 | .17 |      | .77  | .10 |    |     |     | .18  | 1.26 |    |    |     | T   | .26  | 4.12  |      |
| Newton.....                                | Delaware.....   |              | T.  |     |     |     | .70  |     |    |   | .05 | .10 |    | .22 | .01 |    |    | .33 | .20 |      | 1.11 | T.  |    |     |     | \$   | \$   |    |    |     |     | .51  | \$    |      |
| Phillipsburg.....                          | do.....         |              |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      |       |      |
| Sussex.....                                | Hudson.....     |              | .06 |     |     |     | .72  |     |    |   | .13 |     |    | .14 |     |    |    | .16 | *   |      | 1.19 |     |    |     |     | .12  | 1.18 |    |    |     | .03 | .45  | 4.18  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      |       |      |
| Bergen Point**.....                        | Coast.....      |              | T.  |     |     |     | .51  |     |    |   | .16 |     |    | .03 |     |    |    | .60 | .32 |      | 1.25 |     |    | T.  | .48 | .63  |      |    |    |     | T.  | T.   | .91   | 4.89 |
| Boonton   .....                            | Passaic.....    |              | T.  |     |     |     | .37  | .05 |    |   |     | .26 |    |     | .17 |    |    | .45 | .17 | .20  | .18  | .87 |    |     |     | 1.81 | .18  |    |    |     |     | .02  | T     | 4.71 |
| Chatham   .....                            | do.....         |              |     |     |     |     | .61  | .06 |    |   |     | .22 |    |     | .07 |    |    | .26 | .18 | .41  | .13  | .99 |    |     | .11 | 1.20 | .44  |    |    |     |     |      |       | 4.70 |
| Elizabeth.....                             | Coast.....      |              | T.  |     |     |     | .57  |     |    |   | .01 | .07 |    | T.  | T.  |    |    | .64 | .33 |      | .75  | .34 |    |     | .99 | T.   |      |    |    |     | T.  | T.   | .82   | 4.52 |
| Flemington.....                            | Raritan.....    |              |     |     |     |     | .65  |     |    |   | .04 |     |    | .02 |     |    |    | .33 | .20 |      | .95  |     |    | T.  | .11 | 1.06 |      |    |    |     | T.  | T.   | .85   | 4.21 |
| Highwood.....                              | Hackensack..... |              | .03 |     |     |     | .50  |     |    |   | .04 | .08 |    | .03 | T.  |    |    | .68 | .13 | .03  | .87  | .03 |    |     | .47 | .38  |      |    |    |     | T.  |      | .77   | 4.04 |
| Jersey City.....                           | Coast.....      |              | T.  |     |     |     | .45  |     |    |   | .02 | .30 |    | .14 | .02 |    |    | .47 | .29 |      | .80  |     |    |     | .55 | 1.35 |      |    |    |     |     |      | 1.00  | 5.39 |
| Lambertville.....                          | Delaware.....   | .01          | T.  |     |     |     | .58  | T.  | T. |   | .04 | .01 |    | .02 | .02 |    |    | .19 | .21 | .01  | .80  | .04 |    | T.  | *   | 1.87 |      |    |    | .01 |     |      | 1.33  | 5.14 |
| Little Falls.    .....                     | Passaic.....    |              |     | .01 |     |     | .69  | .03 |    |   | .04 | .16 |    | .01 | .09 |    |    | .55 | .04 | .17  | .19  | .80 |    |     | .01 | 1.57 | .06  |    |    |     | .02 | .04  | 4.47  |      |
| New Brunswick.....                         | Raritan.....    |              | T.  |     |     |     | .65  |     |    |   | .02 |     |    | .08 |     |    |    | .44 | .18 |      | 1.24 | .05 |    | T.  | .08 | 1.10 |      |    |    |     | T.  | T.   | 1.44  | 5.28 |
| New Milford.**.....                        | Hackensack..... |              | .05 |     |     |     | .58  |     |    |   | .15 |     |    | .07 |     |    |    | .53 | .10 | .01  | .93  |     |    |     | .84 | .37  |      |    |    |     |     | .88  | 4.51  |      |
| Paterson.....                              | Passaic.....    |              | .02 |     |     |     | \$   |     |    |   | .07 | .06 |    | .09 | .02 |    |    | .55 | .15 | .08  | .94  | .08 |    |     | .33 | .98  |      |    |    | .02 | T.  | .75  | \$    |      |
| Plainfield.....                            | Raritan.....    |              | T.  |     |     |     | .78  |     |    |   | .06 | .04 |    | .06 | .01 |    |    | .36 | .34 |      | .97  |     |    |     | .71 | .25  |      |    |    |     | T.  | T.   | .86   | 4.44 |
| Ridgefield.....                            | Hackensack..... |              | T.  |     |     |     | .40  |     |    |   | *   | .18 |    | .01 |     |    |    | .69 | .18 | T.   | .80  |     |    |     | *   | .74  |      |    |    |     | T.  | T.   | .67   | 3.67 |
| Somerville.....                            | Raritan.....    |              | T.  |     |     |     | .76  |     |    |   | .04 |     |    | T.  |     |    |    | .24 | *   |      | 1.07 | .07 |    |     | .20 | .84  |      |    |    |     |     |      | 1.12  | 4.34 |
| South Orange.....                          | Rahway.....     |              | .03 |     |     |     | .80  |     |    |   | *   |     |    | .33 |     |    |    | .70 | *   | 1.50 | .10  |     |    |     | .56 | T.   |      |    |    |     |     |      | 1.30  | 5.32 |
| Verona**.....                              | Passaic.....    |              | .01 |     |     |     | .71  |     |    |   | .21 |     |    | .08 |     |    |    | .46 | .25 | .02  | 1.04 |     |    |     | .90 | .31  |      |    |    | .01 |     | .60  | 4.60  |      |
| Woodcliff Lake**.....                      | Hackensack..... |              |     |     |     |     | .75  |     |    |   | .09 |     |    | .16 |     |    |    | .62 | .12 |      | .85  |     |    |     | .87 | .43  |      |    |    |     | .02 |      | .60   | 4.51 |
| New York, N. Y***.....                     | Coast.....      |              | T.  |     |     |     | .40  |     |    |   | .34 |     |    | .13 |     |    |    | .46 | .28 |      | .81  |     |    | T.  | .59 | 1.19 |      |    |    |     |     | .91  | 5.11  |      |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |     |     | .01 |     | .87  |     |    |   | .03 |     |    | *   | .09 |    |    | *   | .02 | *    | .21  | .02 |    |     | .11 | .38  |      |    |    |     |     | .39  | 2.13  |      |
| Bridgeton.....                             | Coast.....      |              |     |     |     |     | .34  |     |    |   |     |     |    | .11 |     |    |    | .16 | .06 |      | .34  |     |    | .03 | .05 | .55  |      |    |    |     |     | .15  | 1.79  |      |
| Burlington.....                            | Delaware.....   |              |     |     |     |     | .55  |     |    |   | .07 |     |    | .06 | .01 |    |    | T.  | .19 |      | .48  | .04 |    |     | .06 | .30  | .65  |    |    |     |     | T.   | 1.41  | 3.82 |
| Clayton.....                               | Delaware.....   |              |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      |       |      |
| Hammonton.....                             | Mullica.....    |              |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      |       |      |
| Hightstown.....                            | Raritan.....    |              | T.  |     |     |     | .55  |     |    |   | T.  | .03 |    | .30 |     |    |    | .29 | .20 |      | .81  | T.  |    | .06 | .05 | 1.07 |      |    |    |     |     |      | 1.30  | 4.66 |
| Imlaystown.....                            | Delaware.....   |              |     |     |     |     | .35  |     |    |   | \$  |     |    | .18 | .03 |    |    | .32 | .12 |      | .62  | .09 |    | \$  | \$  | .16  |      |    |    |     |     | \$   | \$    |      |
| Indian Mills.....                          | Mullica.....    |              | T.  |     |     |     | .40  |     |    |   | .05 |     |    | T.  | .03 |    |    | .30 | .30 |      | .42  |     |    | .05 | .08 | .80  |      |    |    |     | T.  |      | .50   | 2.93 |
| Lakewood.....                              | Metedeconk..... |              |     |     |     |     | .65  |     |    |   | T.  | .15 |    | T.  |     |    |    | .56 | .13 |      | .60  |     |    | .06 | .36 | .30  |      |    |    |     |     | T.   | .70   | 3.51 |
| Moorestown.....                            | Delaware.....   |              |     |     |     |     | .55  |     |    |   |     |     |    | .02 |     |    |    | .15 | .36 |      | .48  |     |    | .03 | .10 | 1.50 |      |    |    |     |     | 1.03 | 4.22  |      |
| Northfield.....                            | Coast.....      |              |     |     |     |     | .27  |     |    |   | .04 | .07 |    |     |     |    |    | .32 | .03 |      | .28  |     |    |     | .23 | .70  |      |    |    |     |     | .17  | 2.11  |      |
| Pleasantville   .....                      | Coast.....      |              | T.  |     |     |     | .23  | .04 |    |   | .07 |     |    | .20 |     |    |    | .20 | .08 | .08  | .08  | .22 |    |     | T.  | 1.07 |      |    |    |     |     |      | 2.27  |      |
| Riverton   .....                           | Delaware.....   |              | T.  | T.  |     | .01 | T.   | .66 | T. |   | .02 | T.  | T. | .02 |     |    |    | .11 | T.  | .37  | .14  | .36 | T. |     | .08 | 1.02 | .10  |    |    |     |     |      | 2.89  |      |
| Runyon.....                                | Coast.....      |              |     |     |     |     | .56  |     |    |   | .04 |     |    | .21 |     |    |    | .40 | .14 |      | 1.20 | .10 |    | .02 | .12 | .78  |      |    |    |     |     |      | 1.46  | 6.03 |
| Trenton***.....                            | Delaware.....   |              | T.  |     |     |     | .60  |     |    |   | .06 | .06 |    | .24 |     |    |    | .11 | .11 |      | .63  |     |    | .02 | .36 | .37  |      |    |    |     | T.  | T.   | 1.53  | 4.09 |
| Tuckerton.....                             | Coast.....      |              |     |     |     |     | *    |     |    |   | *   |     |    | .89 |     |    |    | .30 | .21 |      | .66  | .04 |    | .02 | .23 | 1.40 |      |    |    |     |     | .20  | 3.95  |      |
| Vineland.....                              | Maurice.....    |              |     |     |     | .49 | .33  |     |    |   | T.  |     |    |     |     |    |    | .15 | .06 |      | .40  |     |    | .03 | .06 | .55  |      |    |    |     |     |      | .25   | 2.32 |
| Phila., Pa***.....                         | Delaware.....   |              | T.  | .61 |     |     | .42  |     |    |   | T.  | .02 |    | .03 |     |    |    | .16 | .35 |      | .39  |     |    | .04 | .41 | .54  |      |    |    | .01 | T.  | 1.13 | 4.11  |      |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |     |      |     |    |   |     |     |    |     |     |    |    |     |     |      |      |     |    |     |     |      |      |    |    |     |     |      |       |      |
| Asbury Park.....                           | Coast.....      |              |     |     |     |     | .55  |     |    |   | .10 | .05 |    | .05 |     |    |    | .45 | .20 |      | .75  |     |    | .05 | .35 | .25  |      |    |    |     | T.  | .75  | 3.55  |      |
| Atlantic City***.....                      | do.....         |              |     |     |     |     | 1.24 |     |    |   | .10 | T.  |    | .06 |     |    |    | .39 | .02 |      | .26  |     |    | T.  | .51 | .08  |      |    |    |     | T.  | .24  | 2.90  |      |
| Cape May City.....                         | do.....         |              |     |     |     |     | .66  |     |    |   |     | .04 |    | .09 |     |    |    | .20 |     |      | .28  |     |    | T.  | .18 | .15  | T.   |    |    |     |     |      | .35   | 1.95 |
| Sandy Hook***.....                         | do.....         |              | T.  |     |     |     | .54  |     |    |   | .08 | .01 |    | .21 |     |    |    | .15 | .15 | T.   | 1.25 |     |    | .02 | .35 | .23  |      |    |    |     | T.  | .69  | 3.68  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 29.97        | 30.40   | 1    | 29.21  | 5    | 16.4            | 61             | sw.       | 25   | 80                                     | 66                                        | 75                                      | 62            |
| New York, N. Y.....   | 29.96        | 30.42   | 1    | 29.13  | 25   | 15.8            | 74             | sw.       | 25   | 77                                     | 65                                        | 72                                      | 56            |
| Philadelphia, Pa..... | 29.98        | 30.41   | 1    | 29.15  | 25   | 8.6             | 37             | sw.       | 25   | 80                                     | 63                                        | 70                                      | 51            |
| Ridgefield.....       | 29.96        | 30.41   | 1    | 29.11  | 25   |                 |                |           |      |                                        |                                           |                                         |               |
| Sandy Hook.....       | 29.96        | 30.43   | 1    | 29.07  | 25   | 16.2            | 62             | sw.       | 25   | 78                                     | 66                                        | 74                                      | 56            |
| Trenton...            | 29.96        | 30.42   | 1    | 29.10  | 25   | 9.9             | 48             | sw.       | 25   | 81                                     | 65                                        | 75                                      | 53            |
| Verona.....           | 29.97        | 30.44   | 1    | 29.08  | 25   | 5.6             | 40             | sw.       | 25   | 85*                                    |                                           | 79                                      |               |



## Daily Temperatures for October, 1926

| Stations                             | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9     | 10    | 11    | 12 | 13 | 14    | 15 | 16 | 17    | 18 | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean              |                   |
|--------------------------------------|--------------|----|----|----|----|----|----|----|-------|-------|-------|----|----|-------|----|----|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |       |       |       |    |    |       |    |    |       |    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Belvidere.....                       | Maximum..... | 68 | 66 | 83 | 85 | 87 | 76 | 65 | 61    | 61    | 55    | 67 | 71 | 60    | 70 | 64 | 64    | 49 | 58    | 46    | 55    | 58    | 58    | 65    | 65    | 65    | 65    | 65    | 65    | 65    | 65    | 64.9 <sup>a</sup> |                   |
|                                      | Minimum..... | 49 | 55 | 60 | 56 | 62 | 57 | 45 | 37    | 38    | 33    | 47 | 34 | 45    | 40 | 43 | 31    | 45 | 33    | 42    | 33    | 37    | 42    | 36    | 43    | 27    | ..... | ..... | ..... | ..... | ..... | 42.4 <sup>a</sup> |                   |
| Charlotteburg.....                   | Maximum..... | 65 | 62 | 76 | 80 | 74 | 75 | 69 | 60    | 58    | 53    | 61 | 70 | 62    | 68 | 60 | 56    | 54 | 50    | 50    | 45    | 50    | 46    | 55    | 65    | 64    | 47    | 55    | 60    | 61    | 56    | 50                | 59.9              |
|                                      | Minimum..... | 38 | 50 | 49 | 51 | 53 | 46 | 41 | 31    | 40    | 28    | 40 | 38 | 40    | 41 | 36 | 23    | 46 | 29    | 40    | 29    | 39    | 20    | 35    | 39    | 40    | 27    | 20    | 17    | 35    | 37    | 40                | 36.7              |
| Dover.....                           | Maximum..... | 63 | 67 | 78 | 78 | 81 | 71 | 62 | 55    | 56    | 56    | 60 | 68 | 63    | 65 | 60 | 56    | 55 | 47    | 52    | 48    | 51    | 55    | 58    | 64    | 57    | 52    | 56    | 58    | 60    | 55    | 60                | 60.2 <sup>a</sup> |
|                                      | Minimum..... | 44 | 53 | 57 | 56 | 64 | 52 | 44 | 37    | 36    | 32    | 40 | 36 | 43    | 42 | 39 | 29    | 39 | 32    | 34    | 32    | 29    | 25    | 39    | 34    | 29    | 25    | 23    | 40    | 48    | 37    | 39.0 <sup>a</sup> |                   |
| Layton.....                          | Maximum..... | 67 | 65 | 74 | 83 | 84 | 73 | 65 | 56    | 55    | 50    | 61 | 68 | 59    | 68 | 57 | 62    | 54 | 45    | 46    | 40    | 56    | 60    | 48    | 65    | 46    | 50    | 55    | 54    | 54    | 51    | 58.5 <sup>b</sup> |                   |
|                                      | Minimum..... | 45 | 55 | 53 | 52 | 62 | 60 | 43 | 32    | 38    | 28    | 41 | 31 | 40    | 35 | 38 | 27    | 41 | 28    | 38    | 30    | 32    | 25    | 32    | 27    | 40    | 42    | 50    | 55    | 54    | 51    | 48.3 <sup>c</sup> |                   |
| Newton.....                          | Maximum..... | 68 | 66 | 81 | 83 | 84 | 78 | 64 | 58    | 55    | 52    | 63 | 69 | 61    | 69 | 61 | 60    | 55 | 47    | 55    | 42    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52    | 52                | 51.3 <sup>c</sup> |
|                                      | Minimum..... | 53 | 57 | 56 | 62 | 54 | 46 | 38 | 30    | 33    | 45    | 39 | 48 | 41    | 45 | 31 | 43    | 33 | 39    | 33    | 35    | ..... | ..... | ..... | ..... | 49    | 51    | 58    | 55    | 62    | 58    | 61.3 <sup>c</sup> |                   |
| Phillipsburg.....                    | Maximum..... | 72 | 71 | 83 | 85 | 85 | 72 | 63 | 60    | 58    | 59    | 69 | 70 | 60    | 67 | 63 | 60    | 60 | 49    | 57    | 49    | 54    | 63    | 62    | 68    | 62    | 45    | 48    | 55    | 40    | 48    | 38                | 41.9              |
|                                      | Minimum..... | 58 | 56 | 59 | 58 | 63 | 54 | 48 | 39    | 39    | 36    | 45 | 36 | 47    | 43 | 41 | 33    | 41 | 36    | 39    | 44    | 33    | 29    | 41    | 39    | 38    | 31    | 27    | 37    | 49    | 38    | 41.9              |                   |
| Sussex.....                          | Maximum..... | 69 | 65 | 81 | 85 | 84 | 76 | 63 | 54    | 57    | 49    | 62 | 71 | 70    | 59 | 62 | 55    | 54 | 51    | 58    | 60    | 52    | 63    | 50    | 51    | 59    | 53    | 56    | 53    | 56    | 53    | 61.5 <sup>b</sup> |                   |
|                                      | Minimum..... | 45 | 54 | 55 | 52 | 59 | 60 | 44 | 33    | 39    | 30    | 45 | 30 | ..... | 39 | 38 | 27    | 47 | ..... | 41    | 32    | 24    | 38    | 31    | 44    | 29    | 23    | 20    | 40    | 41    | 40    | 39.3 <sup>c</sup> |                   |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |       |       |       |    |    |       |    |    |       |    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Bergen Point.....                    | Maximum..... | 69 | 72 | 82 | 79 | 85 | 72 | 66 | 58    | 51    | 62    | 72 | 73 | 66    | 66 | 63 | 58    | 49 | 56    | 51    | 52    | 52    | 57    | 62    | 68    | 49    | 54    | 58    | 65    | 68    | 63    | 63.3 <sup>a</sup> |                   |
|                                      | Minimum..... | 56 | 57 | 65 | 60 | 65 | 62 | 52 | 43    | 41    | 48    | 42 | 51 | 51    | 49 | 39 | 46    | 39 | 49    | 41    | 40    | 34    | 38    | 43    | 44    | 33    | 32    | 32    | 47    | 52    | 43    | 46.6 <sup>a</sup> |                   |
| Boonton§§.....                       | Maximum..... | 67 | 69 | 81 | 81 | 84 | 70 | 64 | 58    | 58    | 51    | 63 | 68 | 64    | 69 | 60 | 61    | 57 | 52    | 54    | 45    | 50    | 58    | 59    | 67    | 65    | 50    | 51    | 58    | 61    | 63    | 57                | 61.8              |
|                                      | Minimum..... | 43 | 49 | 55 | 52 | 59 | 61 | 45 | 31    | 35    | 30    | 38 | 30 | 37    | 39 | 35 | 26    | 37 | 29    | 36    | 29    | 34    | 43    | 32    | 24    | 30    | 34    | 43    | 24    | 23    | 26    | 44                | 37.2              |
| Elizabeth.....                       | Maximum..... | 68 | 73 | 82 | 83 | 88 | 80 | 68 | 60    | 62    | 57    | 67 | 74 | 74    | 72 | 65 | 64    | 58 | 58    | 55    | 54    | 61    | 58    | 60    | 69    | 53    | 55    | 59    | 68    | 64    | 61    | 65.7 <sup>a</sup> |                   |
|                                      | Minimum..... | 50 | 52 | 62 | 53 | 66 | 61 | 49 | 37    | 41    | 36    | 46 | 36 | 46    | 44 | 43 | 33    | 50 | 33    | 45    | 37    | 36    | 28    | 42    | 44    | 47    | 30    | 27    | 27    | 39    | 55    | 44                | 43.2              |
| Flemington.....                      | Maximum..... | 66 | 70 | 83 | 87 | 85 | 76 | 64 | 59    | 58    | 58    | 69 | 72 | 63    | 72 | 63 | 64    | 57 | 55    | 52    | 50    | 55    | 60    | 57    | 60    | 66    | 52    | 51    | 60    | 64    | 63    | 60                | 63.6              |
|                                      | Minimum..... | 52 | 55 | 63 | 58 | 65 | 60 | 49 | 39    | 40    | 35    | 50 | 35 | 46    | 42 | 46 | 32    | 49 | 35    | 46    | 34    | 35    | 28    | 42    | 39    | 43    | 31    | 28    | 27    | 38    | 50    | 44                | 43.1              |
| Highwood.....                        | Maximum..... | 62 | 68 | 75 | 76 | 79 | 73 | 63 | 56    | 55    | 47    | 60 | 67 | 68    | 65 | 61 | 58    | 56 | 46    | 52    | 48    | 49    | 58    | 58    | 62    | 66    | 60    | 51    | 58    | 64    | 62    | 59                | 60.4              |
|                                      | Minimum..... | 47 | 51 | 57 | 53 | 63 | 58 | 45 | 37    | 41    | 31    | 46 | 34 | 46    | 41 | 42 | 30    | 44 | 31    | 37    | 34    | 33    | 27    | 43    | 40    | 41    | 31    | 24    | 23    | 41    | 46    | 41                | 40.6              |
| Jersey City.....                     | Maximum..... | 65 | 72 | 82 | 80 | 82 | 70 | 63 | 60    | 57    | 54    | 63 | 69 | 70    | 66 | 62 | 59    | 59 | 49    | 55    | 56    | 52    | 60    | 58    | 67    | 67    | 67    | 67    | 67    | 67    | 67    | 67                | 67.6              |
|                                      | Minimum..... | 54 | 57 | 63 | 63 | 64 | 58 | 50 | 44    | 42    | 40    | 47 | 45 | 51    | 51 | 46 | 42    | 45 | 37    | 44    | 40    | 40    | 48    | 50    | 38    | 33    | 36    | 35    | 45    | 54    | 42    | 46.6              |                   |
| Lambertville.....                    | Maximum..... | 65 | 71 | 79 | 83 | 82 | 70 | 61 | 56    | 55    | 57    | 61 | 66 | 67    | 65 | 60 | 60    | 56 | 46    | 53    | 47    | 51    | 56    | 54    | 60    | 64    | 45    | 49    | 55    | 66    | 68    | 59                | 60.9              |
|                                      | Minimum..... | 53 | 53 | 59 | 59 | 65 | 58 | 46 | 38    | 37    | 35    | 48 | 39 | 50    | 48 | 41 | 34    | 42 | 34    | 42    | 36    | 36    | 31    | 41    | 43    | 40    | 31    | 29    | 31    | 40    | 52    | 41                | 43.0              |
| Little Falls§§.....                  | Maximum..... | 68 | 76 | 82 | 83 | 85 | 72 | 66 | 60    | 57    | 52    | 63 | 71 | 68    | 72 | 63 | 60    | 56 | 51    | 54    | 47    | 54    | 59    | 68    | 67    | 51    | 51    | 60    | 63    | 60    | 54    | 63.0              |                   |
|                                      | Minimum..... | 45 | 50 | 59 | 54 | 64 | 52 | 47 | 36    | 38    | 32    | 42 | 34 | 43    | 43 | 41 | 30    | 43 | 31    | 37    | 34    | 37    | 27    | 37    | 37    | 37    | 37    | 37    | 37    | 37    | 48    | 40                | 40.9              |
| New Brunswick.....                   | Maximum..... | 64 | 72 | 80 | 78 | 86 | 77 | 65 | 59    | 56    | 52    | 64 | 69 | 70    | 69 | 62 | 61    | 57 | 50    | 55    | 53    | 51    | 59    | 56    | 61    | 67    | 49    | 52    | 58    | 67    | 62    | 61                | 62.6              |
|                                      | Minimum..... | 51 | 53 | 64 | 60 | 64 | 60 | 49 | 40    | 40    | 34    | 46 | 37 | 47    | 45 | 45 | 35    | 50 | 33    | 44    | 37    | 35    | 29    | 43    | 44    | 44    | 44    | 44    | 44    | 44    | 44    | 44                | 43.7              |
| Paterson.....                        | Maximum..... | 65 | 69 | 79 | 80 | 85 | 73 | 66 | 59    | 59    | 50    | 63 | 70 | 69    | 67 | 62 | 60    | 55 | 52    | 55    | 48    | 51    | 60    | 60    | 68    | 44    | 44    | 44    | 44    | 44    | 44    | 44                | 43.7              |
|                                      | Minimum..... | 48 | 52 | 60 | 57 | 66 | 60 | 46 | 40    | 42    | 38    | 45 | 39 | 47    | 45 | 46 | 35    | 50 | 36    | 45    | 40    | 38    | ..... | 47    | 41    | 47    | 33    | 30    | 31    | 41    | 52    | 43                | 47.7 <sup>a</sup> |
| Plainfield.....                      | Maximum..... | 66 | 72 | 81 | 81 | 86 | 70 | 62 | 59    | 58    | 52    | 63 | 69 | 71    | 66 | 62 | 60    | 56 | 47    | 55    | 58    | 52    | 60    | 57    | 63    | 67    | 49    | 53    | 57    | 66    | 66    | 59                | 62.7              |
|                                      | Minimum..... | 49 | 52 | 62 | 57 | 62 | 60 | 47 | 36    | 40    | 32    | 45 | 32 | 40    | 43 | 40 | 30    | 45 | 30    | 35    | 32    | 36    | 26    | 40    | 39    | 41    | 29    | 25    | 21    | 35    | 49    | 42                | 40.5              |
| Ridgefield.....                      | Maximum..... | 66 | 68 | 79 | 78 | 81 | 70 | 65 | 58    | 59    | 48    | 64 | 70 | 71    | 68 | 64 | 59    | 57 | 46    | 56    | 48    | 50    | 59    | 57    | 64    | 68    | 51    | 52    | 58    | 65    | 63    | 59                | 62.0              |
|                                      | Minimum..... | 48 | 57 | 57 | 55 | 63 | 53 | 44 | 39    | 38    | 34    | 43 | 37 | 50    | 45 | 40 | 32    | 37 | 34    | 38    | 37    | 32    | 29    | 43    | 41    | 36    | 32    | 29    | 28    | 43    | 49    | 40                | 41.4              |
| Somerville.....                      | Maximum..... | 68 | 73 | 82 | 84 | 89 | 73 | 65 | 59    | 59    | 54    | 66 | 72 | 69    | 70 | 64 | 63    | 57 | 49    | 58    | 50    | 54    | 61    | 58    | 60    | 68    | 50    | 55    | 60    | 67    | 65    | 60                | 64.1              |
|                                      | Minimum..... | 51 | 53 | 58 | 59 | 65 | 60 | 44 | 34    | 38    | 33    | 48 | 32 | 43    | 39 | 37 | 29    | 49 | 31    | 44    | 32    | 36    | 26    | 39    | 37    | 46    | 29    | 24    | 24    | 35    | 51    | 43                | 40.9              |
| South Orange.....                    | Maximum..... | 62 | 67 | 75 | 75 | 81 | 65 | 62 | 55    | 55    | 48    | 58 | 65 | 66    | 64 | 58 | 57    | 54 | 52    | 49    | 44    | 39    | 57    | 54    | 59    | ..... | ..... | ..... | ..... | ..... | ..... | .....             | 62.0 <sup>i</sup> |
|                                      | Minimum..... | 52 | 53 | 62 | 60 | 65 | 60 | 48 | ..... | ..... | ..... | 41 | 51 | 49    | 50 | 38 | ..... | 38 | 36    | ..... | ..... | 37    | 45    | 40    | 32    | ..... | 35    | ..... | 33    | ..... | ..... | 46.7 <sup>j</sup> |                   |
| Verona.....                          | Maximum..... | 62 | 68 | 72 | 77 | 81 | 68 | 61 | 58    | 55    | 50    | 59 | 66 | 68    | 65 | 59 | 56    | 55 | 45    | 52    | 46    | 49    | 56    | 56    | 62    | 66    | 47    | 49    | 56    | 62    | 60    | 58                | 59.4              |
|                                      | Minimum..... | 50 | 53 | 61 | 55 | 54 | 48 | 38 | 40    | 34    | 45    | 39 | 52 | 46    | 45 | 34 | 43    | 33 | 38    | 36    | 37    | 33    | 42    | 44    | 41    | 31    | 29    | 29    | 44    | 40    | 40    | 42.3              |                   |
| New York, N. Y.....                  | Maximum..... | 64 | 70 | 80 | 77 | 78 | 70 | 63 | 60    | 56    | 54    | 62 | 68 | 69    | 65 | 61 | 56    | 58 | 49    | 55    | 52    | 50    | 59    | 57    | 66    | 66    | 48    | 51    | 57    | 64    | 61    | 62                | 61.5              |
|                                      | Minimum..... | 55 | 57 | 64 | 63 | 64 | 58 | 44 | 42    | 41    | 47    | 46 | 54 | 52    | 46 | 44 | 41    | 38 | 46    | 41    | 40    | 41    | 49    | 50    | 38    | 34    | 37    | 36    | 46    | 55    | 39    | 47.0              |                   |
| The Southern Interior.               |              |    |    |    |    |    |    |    |       |       |       |    |    |       |    |    |       |    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Belleplain.....                      | Maximum..... | 4  |    |    |    |    |    |    |       |       |       |    |    |       |    |    |       |    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |

a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.  
to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning; the maximum temperature then read is charged

## Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

|                   |   |                  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |       |       |
|-------------------|---|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| Pleasantville**.. | { | Evaporation..... | 144 | 112 | 160 | 136 | 150 | 152 | 144 | 112 | 128 | 038 | 048 | 128 | 040 | 112 | 128 | *   | 056 | 048 | 080 | 060 | 064 | 064 | 032 | *   | 142 | 064 | 080 | 080 | 064 | 032 | 092   | 2,690 |
|                   |   | WIND movement.   | 78  | 43  | 24  | 24  | 70  | 31  | 39  | 41  | 55  | 35  | 13  | 23  | 46  | 33  | 49  | 34  | 48  | 46  | 58  | 81  | 25  | 38  | 35  | 112 | 88  | 29  | 31  | 33  | 32  | 53  | 85    | 1,432 |
| Runyon.....       | { | Evaporation..... | 120 | 080 | 120 | 110 | 120 | 120 | 100 | 120 | 070 | 080 | 120 | 050 | 060 | 090 | 090 | 040 | 020 | 080 | 060 | 100 | 090 | 000 | 000 | 000 | 160 | 080 | 080 | 060 | 060 | 020 | 2,420 |       |
|                   |   | WIND movement.   | 49  | 47  | 54  | 33  | 54  | 66  | 47  | 39  | 48  | 12  | 32  | 15  | 32  | 22  | 36  | 48  | 42  | 22  | 37  | 45  | 54  | 55  | 16  | 42  | 227 | 34  | 19  | 19  | 36  | 52  | 1,373 |       |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXI.

NOVEMBER, 1926.

No. 11

### GENERAL SUMMARY.

Weather conditions during November of this year were not greatly different from those prevailing in November, 1925. Both temperature and precipitation were slightly greater than last year, although temperature was slightly subnormal. Thus another month deficient in warmth has occurred; there having been thus far in 1926, two months slightly above normal in warmth, and 9 colder than normal. Rain, both in frequency and volume, was only slightly above the normal. It was warm from the 7th to the 9th, and from the 14th to the 18th, and on the 26th, 29th and 30th. Temperatures were well down below freezing on the 11th, 12th, 27th and 28th, when the lowest temperature of the month occurred at nearly all stations.

A storm accompanied by the lowest pressure of the month occurred on the 16th, and considerable damage from wind and rain was reported. Electric poles were blown down, and trees and roofs were damaged in many portions of the State. The heavy rain in the Delaware River drainage area caused a stage of 11.3 feet (estimated), at Trenton, which was the highest stage since October 2, 1924.

Cold waves occurred on the 11th and 27th but possible damage from them had been well guarded against.

Storm warnings were displayed along the coast on the 9th, 15th, 16th, 18th, and 26th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 42.5°, which was 0.4° below normal. The highest temperature was 76° at Runyon and Moorestown on the 9th and 15th respectively, and the lowest, 8°, at Belleplain on the 12th and 28th. The greatest daily range of temperature was 42° at Runyon on the 14th. The highest monthly mean temperature was 46.8° at Cape May City, and the lowest, 39.4° at Charlotteburg and Layton.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.2°; Red Sandstone Plain, -1.6°; Southern Interior, -1.1°; Sea Coast, -0.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 4.04 inches, which was 0.93 inch above normal. The average total snowfall for the State was a trace, which was 1.2 inches below normal.

The greatest monthly precipitation was 7.19 inches, at Chatham, and the least, 2.44 inches at Atlantic City. The greatest amount of precipitation in any 24 consecutive hours was 2.70 inches at Chatham on the 10th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 1 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -2.97 inches; Red Sandstone Plain, +1.36 inches; Southern Interior, -2.66 inches; Sea Coast, -2.28 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 14 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 72 miles per hour from the southeast at Atlantic City on the 16th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than normal; partly cloudy, 8, or normal; cloudy, 9, or 1 less than normal. The per cent of possible sunshine was 57, which was 1 per cent below normal.

### MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 6.0 feet, and the highest stage, 17.0 feet on the 18th. At Trenton the mean daily stage was 3.7 feet, which was 1.9 feet above normal. The highest stage was 11.3 feet on the 18th.

The mean atmospheric pressure, reduced to sea level, was 30.12 inches, which was 0.02 inch above normal. The highest reading was 30.63 inches at Verona on the 12th, and the lowest 29.30 inches at Sandy Hook on the 16th.

Dense fog occurred on the 8th, 9th and 26th. Thunderstorms were noted on the 9th, 10th, 18th, 26th and 27th. Solar halos were observed on the 13th, 21st, 28th and 29th; and lunar halos on the 14th and 22d.

### COMPARATIVE DATA FOR NOVEMBER

| Year      | Temperature |         |        | Precipitation |          |       |          | No. of days |               |        |                         |
|-----------|-------------|---------|--------|---------------|----------|-------|----------|-------------|---------------|--------|-------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Snowfall | Clear       | Partly cloudy | Cloudy | 0.01 inch or more prec. |
| 1885..... | 44.8        | 76      | 18     | 4.53          | 7.90     | 2.72  | .....    | .....       | .....         | .....  | .....                   |
| 1886..... | 44.5        | 73      | 17     | 4.49          | 6.24     | 3.45  | .....    | .....       | .....         | .....  | .....                   |
| 1887..... | 41.5        | 72      | 13     | 1.94          | 2.60     | 0.95  | .....    | .....       | .....         | .....  | 6                       |
| 1888..... | 45.8        | 77      | 8      | 3.97          | 5.41     | 2.66  | .....    | .....       | .....         | .....  | 10                      |
| 1889..... | 45.7        | 69      | 13     | 8.48          | 11.45    | 4.70  | .....    | .....       | .....         | .....  | 13                      |
| 1890..... | 43.8        | 74      | 11     | 0.82          | 1.10     | 0.38  | .....    | 13          | 12            | 5      | 8                       |
| 1891..... | 42.2        | 70      | 6      | 2.39          | 3.47     | 1.54  | .....    | 12          | 10            | 8      | 4                       |
| 1892..... | 41.9        | 71      | 12     | 7.29          | 9.49     | 4.74  | .....    | 8           | 9             | 13     | 11                      |
| 1893..... | 41.8        | 70      | 11     | 3.48          | 4.53     | 2.19  | .....    | 10          | 11            | 9      | 7                       |
| 1894..... | 40.3        | 76      | 11     | 3.34          | 5.12     | 1.77  | .....    | 13          | 7             | 10     | 10                      |
| 1895..... | 45.7        | 80      | 12     | 3.17          | 5.10     | 1.56  | 0        | 12          | 7             | 11     | 10                      |
| 1896..... | 48.2        | 78      | 12     | 3.05          | 5.68     | 1.37  | 3.2      | 9           | 9             | 12     | 8                       |
| 1897..... | 43.8        | 74      | 10     | 4.59          | 5.95     | 2.42  | 1.3      | 8           | 11            | 11     | 12                      |
| 1898..... | 42.4        | 70      | 11     | 6.76          | 9.07     | 3.83  | 14.7     | 10          | 9             | 11     | 14                      |
| 1899..... | 44.0        | 71      | 17     | 2.29          | 4.32     | 0.72  | 1.1      | 15          | 8             | 7      | 7                       |
| 1900..... | 47.5        | 79      | 15     | 3.43          | 5.64     | 1.82  | T        | 9           | 10            | 11     | 9                       |
| 1901..... | 38.5        | 69      | 10     | 2.38          | 4.23     | 1.18  | 0.8      | 12          | 9             | 9      | 6                       |
| 1902..... | 49.3        | 80      | 20     | 2.20          | 4.17     | 0.87  | 0.2      | 10          | 11            | 9      | 8                       |
| 1903..... | 39.9        | 79      | 3      | 1.26          | 2.03     | 0.75  | T        | 16          | 8             | 6      | 6                       |
| 1904..... | 40.2        | 69      | 6      | 2.18          | 3.40     | 1.30  | 1.6      | 12          | 10            | 8      | 6                       |
| 1905..... | 42.1        | 70      | 6      | 1.84          | 2.86     | 0.54  | 0.1      | 12          | 10            | 8      | 6                       |
| 1906..... | 43.6        | 70      | 8      | 1.61          | 2.52     | 1.06  | 2.3      | 16          | 7             | 7      | 6                       |
| 1907..... | 43.5        | 68      | 13     | 5.65          | 6.95     | 4.19  | 0.8      | 10          | 8             | 12     | 13                      |
| 1908..... | 43.1        | 72      | 2      | 0.96          | 1.29     | 0.35  | 2.2      | 14          | 8             | 8      | 4                       |
| 1909..... | 46.4        | 80      | 12     | 2.36          | 4.33     | 1.32  | 2.1      | 13          | 8             | 9      | 8                       |
| 1910..... | 40.4        | 71      | 13     | 3.79          | 5.73     | 1.63  | 1.4      | 5           | 13            | 12     | 9                       |
| 1911..... | 41.3        | 73      | 13     | 5.17          | 6.50     | 3.17  | 1.7      | 8           | 11            | 11     | 10                      |
| 1912..... | 45.3        | 76      | 11     | 3.43          | 8.12     | 2.02  | 1.3      | 15          | 8             | 7      | 6                       |
| 1913..... | 46.2        | 77      | 21     | 2.71          | 4.89     | 1.00  | T        | 14          | 7             | 9      | 7                       |
| 1914..... | 43.3        | 80      | 6      | 2.60          | 4.81     | 1.21  | 0.7      | 16          | 8             | 6      | 6                       |
| 1915..... | 44.0        | 75      | 17     | 1.69          | 3.11     | 0.96  | 0        | 14          | 8             | 8      | 8                       |
| 1916..... | 43.3        | 75      | 12     | 2.11          | 3.81     | 0.80  | T        | 16          | 5             | 9      | 8                       |
| 1917..... | 39.8        | 68      | 9      | 0.66          | 1.15     | 0.18  | 0.7      | 19          | 5             | 6      | 3                       |
| 1918..... | 43.9        | 71      | 12     | 1.87          | 3.05     | 0.49  | 0        | 14          | 6             | 10     | 7                       |
| 1919..... | 43.7        | 76      | 13     | 3.74          | 6.18     | 1.98  | T        | 13          | 7             | 10     | 11                      |
| 1920..... | 43.0        | 74      | 12     | 4.41          | 7.90     | 2.14  | 0.2      | 9           | 6             | 15     | 10                      |
| 1921..... | 44.3        | 79      | 18     | 4.26          | 6.69     | 2.79  | 0.1      | 9           | 6             | 15     | 14                      |
| 1922..... | 44.3        | 73      | 13     | 0.91          | 1.56     | 0.49  | 0.2      | 13          | 8             | 9      | 6                       |
| 1923..... | 43.1        | 72      | 11     | 2.51          | 4.09     | 1.10  | 0        | 11          | 8             | 11     | 7                       |
| 1924..... | 42.9        | 77      | 7      | 2.03          | 3.23     | 1.17  | 1.3      | 14          | 8             | 8      | 5                       |
| 1925..... | 42.0        | 76      | 10     | 3.40          | 5.10     | 2.43  | 0.7      | 14          | 8             | 8      | 9                       |
| 1926..... | 42.5        | 76      | 8      | 4.04          | 7.19     | 2.44  | T        | 13          | 8             | 9      | 9                       |



## Climatological Data for November, 1926

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                       | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                             |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|-----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | (greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                      |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                       |                           |                              |       |            |                              |           |                                                                                                                             |
| Belvidere.....                              | Warren.....     | 289             | 35                      | 40.7                         | -0.4                      | 71      | 15    | 17     | 12    | 35                       | 4.24  | +1.00                     | 1.76                  | T.                        | 7                            | 15    | 8          | 7                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                           |
| Charlotteburg††                             | Passaic.....    | 719             | 34                      | 39.4 <sup>a</sup>            | -0.7                      | 65      | 15    | 12     | 12    | 39                       | 5.46  | +1.94                     | 2.42                  | .....                     | 8                            | 5     | 9          | 16                           | w.        |                                                                                                                             |
| Culvers Lake††                              | Sussex.....     | 848             | 25                      | .....                        | .....                     | .....   | ..... | .....  | 16    | 12†                      | 4.17  | +1.37                     | 1.41                  | T.                        | 12                           | 11    | 6          | 13                           | e.        |                                                                                                                             |
| Dover.....                                  | Morris.....     | 600             | 42                      | 39.8                         | -0.3                      | 67      | 9     | 14     | 12    | 34                       | 4.63  | +0.99                     | 1.95                  | 0                         | 9                            | 4     | 16         | 10                           | .....     |                                                                                                                             |
| Layton.....                                 | Sussex.....     | 480             | 25                      | 39.4                         | +0.6                      | 66      | 16    | 11     | 12    | 36                       | 4.56  | +2.07                     | 1.78                  | 0                         | 10                           | 8     | 1          | 21                           | w.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                        |
| Newton.....                                 | Sussex.....     | 769             | 42                      | 41.4                         | +0.9                      | 70      | 10†   | 16     | 12    | 35                       | 4.29  | +1.16                     | 2.10                  | T.                        | 10                           | 9     | 5          | 16                           | nw.       |                                                                                                                             |
| Phillipsburg.....                           | Warren.....     | 363             | 43                      | 43.4 <sup>b</sup>            | +2.2                      | 73      | 15    | 21     | 12    | 37                       | 4.14  | +0.94                     | 1.78                  | 0                         | 8                            | 20    | 6          | 4                            | .....     |                                                                                                                             |
| Sussex.....                                 | Sussex.....     | 442             | 31                      | 40.2                         | -0.9                      | 68      | 15    | 15     | 12    | 37                       | 3.63  | +0.38                     | 1.41                  | .....                     | 15                           | 15    | 8          | 7                            | nw.       |                                                                                                                             |
| Means and extremes.....                     |                 |                 |                         | 40.6                         | +0.2                      | 73      | 15    | 11     | 12    | 39                       | 4.39  | +1.23                     | 2.42                  | T.                        | 10                           | 11    | 7          | 12                           | nw.       |                                                                                                                             |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                       |                           |                              |       |            |                              |           |                                                                                                                             |
| Bergen Point†††                             | Hudson.....     | 37              | 29                      | 44.4                         | +0.7                      | 67      | 10    | 24     | 28    | 29                       | 3.34  | +0.07                     | 1.21                  | .....                     | 9                            | 3     | 20         | 7                            | uw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                            |
| Boonton.....                                | Morris.....     | 400             | 36                      | 40.4                         | -1.0                      | 68      | 9†    | 16     | 12    | 37                       | 5.54  | +1.97                     | 1.48                  | .....                     | 9                            | 17    | 0          | 13                           | nw.       |                                                                                                                             |
| Chatham.....                                | Morris.....     | 185             | 22                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 7.19  | +4.29                     | 2.70                  | .....                     | 9                            | 20    | 4          | 6                            | .....     |                                                                                                                             |
| Elizabeth.....                              | Union.....      | 45              | 47                      | 43.2                         | -0.3                      | 69      | 9     | 21     | 12†   | 33                       | 3.88  | +0.63                     | 1.10                  | T.                        | 9                            | 7     | 17         | 6                            | nw.       |                                                                                                                             |
| Flemington.....                             | Hunterdon.....  | 140             | 54                      | 42.4                         | -0.5                      | 71      | 15    | 19     | 28    | 37                       | 3.34  | +0.22                     | 0.86                  | T.                        | 10                           | 15    | 9          | 6                            | w.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                            |
| Highwood††                                  | Bergen.....     | 90              | 38                      | 41.3                         | -0.7                      | 65      | 9†    | 17     | 12    | 33                       | 4.28  | +0.78                     | 1.72                  | T.                        | 8                            | 8     | 8          | 14                           | nw.       |                                                                                                                             |
| Jersey City.....                            | Hudson.....     | 10              | 28                      | 44.1                         | +0.1                      | 67      | 9     | 23     | 28    | 27                       | 3.26  | +0.07                     | 0.69                  | T.                        | 9                            | 11    | 11         | 8                            | nw.       |                                                                                                                             |
| Lambertville.....                           | Hunterdon.....  | 370             | 39                      | 41.3                         | -1.9                      | 68      | 15    | 18     | 28    | 30                       | 4.22  | +1.01                     | 1.05                  | .....                     | 11                           | 16    | 4          | 10                           | w.        |                                                                                                                             |
| Little Falls.....                           | Passaic.....    | 180             | 523                     | 41.1                         | -1.1                      | 69      | 9     | 18     | 12    | 31                       | 6.20  | +3.30                     | 1.57                  | .....                     | 8                            | 12    | 6          | 12                           | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.        |
| New Brunswick.....                          | Middlesex.....  | 110             | 73                      | 42.8                         | -0.6                      | 72      | 9     | 21     | 12†   | 31                       | 3.78  | +0.30                     | 1.05                  | T.                        | 10                           | 11    | 12         | 7                            | n.        |                                                                                                                             |
| New Milford††                               | Bergen.....     | 9               | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 4.61  | .....                     | 2.13                  | .....                     | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                             |
| Paterson.....                               | Passaic.....    | 80              | 65                      | 43.1                         | -0.4                      | 65      | 8†    | 21     | 28    | 30                       | 5.11  | +1.94                     | 1.60                  | 0                         | 7                            | 14    | 8          | 8                            | nw.       |                                                                                                                             |
| Plainfield.....                             | Union.....      | 120             | 38                      | 41.0                         | -1.5                      | 70      | 9†    | 16     | 12    | 35                       | 4.75  | +1.38                     | 1.18                  | T.                        | 8                            | 12    | 12         | 6                            | w.        |                                                                                                                             |
| Ridgefield.....                             | Bergen.....     | 80              | 9                       | 42.0                         | .....                     | 66      | 9     | 21     | 12†   | 30                       | 3.01  | .....                     | 0.84                  | T.                        | 8                            | 12    | 10         | 8                            | nw.       | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach.<br>Luther Davis.<br>Hackensack Water Co.                              |
| Somerville.....                             | Somerset.....   | 70              | 43                      | 41.9                         | -0.5                      | 73      | 9     | 16     | 12    | 37                       | 4.52  | +1.48                     | 1.24                  | T.                        | 10                           | 10    | 14         | 6                            | w.        |                                                                                                                             |
| South Orange.....                           | Essex.....      | 200             | 56                      | .....                        | .....                     | 70      | 9     | 20     | 28    | .....                    | ..... | .....                     | 2.50                  | .....                     | .....                        | ..... | .....      | .....                        |           |                                                                                                                             |
| Verona.....                                 | Essex.....      | 490             | .....                   | 41.4                         | .....                     | 66      | 9     | 19     | 12    | 33                       | 4.19  | .....                     | 1.74                  | T.                        | 8                            | 7     | 13         | 10                           | w.        |                                                                                                                             |
| Woodcliff Lake††                            | Bergen.....     | 100             | 8                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.89  | .....                     | 1.90                  | .....                     | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                             |
| New York, N. Y.....                         |                 | 365             | 56                      | 44.0                         | -0.2                      | 65      | 9     | 23     | 28    | 30                       | 3.12  | -0.32                     | 1.14                  | T.                        | 9                            | 7     | 12         | 11                           | nw.       | U. S. Weather Bureau.                                                                                                       |
| Means and extremes.....                     |                 |                 |                         | 42.0                         | -0.8                      | 73      | 9     | 16     | 12    | 37                       | 4.49  | +1.45                     | 2.70                  | T.                        | 9                            | 12    | 9          | 9                            | nw.       |                                                                                                                             |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                       |                           |                              |       |            |                              |           |                                                                                                                             |
| Belleplain.....                             | Cape May.....   | 30              | 32                      | 42.0 <sup>b</sup>            | -2.5                      | 71      | 9     | 8      | 12†   | 41                       | 2.85  | +0.24                     | 1.41                  | 0                         | 8                            | 16    | 9          | 5                            | sw.       | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                       |
| Bridgeton.....                              | Cumberland..... | 90              | 45                      | 43.2 <sup>b</sup>            | -2.4                      | 72      | 15    | 16     | 12    | 34                       | 3.41  | +0.61                     | 1.43                  | 0                         | 4                            | 14    | 2          | 14                           | nw.       |                                                                                                                             |
| Burlington.....                             | Burlington..... | 12              | 54                      | 45.0                         | +0.6                      | 73      | 15    | 21     | 12    | 30                       | 3.48  | +0.37                     | 1.30                  | T.                        | 11                           | 14    | 6          | 10                           | nw.       |                                                                                                                             |
| Clayton.....                                | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                 | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                             |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                 | .....                     | .....                        | ..... | .....      | .....                        | .....     | R. E. Montgomery.<br>Harvey M. Grover.<br>Frank M. Lawrence.<br>James M. Armstrong.                                         |
| Hightstown.....                             | Mercer.....     | 120             | 32                      | 42.6 <sup>a</sup>            | -0.7                      | 72      | 15    | 16     | 12    | 40                       | 3.27  | -0.04                     | 0.95                  | .....                     | 10                           | 13    | 11         | 6                            | w.        |                                                                                                                             |
| Imlaystown.....                             | Monmouth.....   | 115             | 36                      | 42.0 <sup>b</sup>            | -0.8                      | 72      | 15    | 16     | 12    | .....                    | 2.74  | -0.46                     | 0.68                  | .....                     | 7                            | ..... | .....      | .....                        | .....     |                                                                                                                             |
| Indian Mills††                              | Burlington..... | 76              | 37                      | 42.9                         | 0.0                       | 72      | 9†    | 13     | 12    | 36                       | 4.10  | +1.02                     | 1.36                  | 0                         | 7                            | 9     | 12         | 9                            | nw.       |                                                                                                                             |
| Lakewood.....                               | Ocean.....      | 54              | 22                      | 41.2                         | -1.6                      | 68      | 9     | 15     | 12    | 35                       | 4.11  | +1.65                     | 1.35                  | .....                     | 9                            | 13    | 9          | 8                            | nw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                         |
| Moorestown.....                             | Burlington..... | 75              | 63                      | 43.8                         | +0.6                      | 76      | 15    | 20     | 12†   | 36                       | 3.87  | +0.62                     | 1.67                  | 0                         | 5                            | 12    | 9          | 9                            | nw.       |                                                                                                                             |
| Northfield††                                | Atlantic.....   | 25              | 19                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.13  | +0.75                     | 0.89                  | 0                         | 8                            | ..... | .....      | .....                        | .....     |                                                                                                                             |
| Pleasantville††                             | Atlantic.....   | 26              | 28                      | 42.6                         | .....                     | 67      | 15    | 13     | 12    | 39                       | 3.32  | +0.60                     | 0.90                  | 0                         | 8                            | 20    | 6          | 4                            | nw.       |                                                                                                                             |
| Riverton.....                               | Burlington..... | .....           | .....                   | 43.0                         | .....                     | 73      | 15    | 20     | 12†   | 32                       | 4.69  | .....                     | 1.25                  | 0                         | 11                           | 17    | 4          | 9                            | .....     | Japanese Beetle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Runyon††                                    | Middlesex.....  | 18              | 2                       | 42.0 <sup>b</sup>            | .....                     | 76      | 9     | 11     | 12    | 42                       | 3.80  | .....                     | 0.95                  | 0                         | 8                            | 14    | 13         | 3                            | w.        |                                                                                                                             |
| Trenton.....                                | Mercer.....     | 190             | 54                      | 43.7                         | -0.7                      | 71      | 9     | 22     | 28    | 30                       | 4.79  | +1.36                     | 2.02                  | T.                        | 8                            | 10    | 10         | 10                           | nw.       |                                                                                                                             |
| Tuckerton.....                              | Ocean.....      | 23              | 33                      | 44.2 <sup>c</sup>            | +0.1                      | 66      | 9†    | .....  | ..... | .....                    | 3.80  | +0.72                     | 1.10                  | 0                         | 11                           | 17    | 8          | 5                            | se.       |                                                                                                                             |
| Vineland.....                               | Cumberland..... | 109             | 57                      | 45.6 <sup>d</sup>            | +1.5                      | 75      | 15    | 20     | 12    | 30                       | 3.34  | +0.23                     | 1.50                  | 0                         | 5                            | ..... | .....      | .....                        | .....     |                                                                                                                             |
| Philadelphia, Pa.....                       |                 | 117             | 55                      | 46.4                         | +0.7                      | 73      | 8     | 24     | 28    | 27                       | 3.07  | +0.01                     | 0.99                  | T.                        | 9                            | 9     | 7          | 14                           | sw.       | U. S. Weather Bureau.                                                                                                       |
| Means and extremes.....                     |                 |                 |                         | 43.1                         | -0.6                      | 76      | 9†    | 8      | 12†   | 42                       | 3.65  | +0.59                     | 2.02                  | 0                         | 8                            | 14    | 8          | 8                            | nw.       |                                                                                                                             |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                       |                           |                              |       |            |                              |           |                                                                                                                             |
| Asbury Park.....                            | Monmouth.....   | 22              | 37                      | 43.6                         | -1.2                      | 66      | 10    | 23     | 12    | 30                       | 3.11  | +0.19                     | 0.85                  | 0                         | 9                            | 20    | 6          | 4                            | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                              |
| Atlantic City.....                          | Atlantic.....   | 16              | 53                      | 46.2                         | +0.6                      | 63      | 16    | 24     | 28    | 28                       | 2.44  | -0.79                     | 0.78                  | 0                         | 8                            | 14    | 7          | 9                            | w.        |                                                                                                                             |
| Cape May City.....                          | Cape May.....   | 17              | 42                      | 46.8                         | -0.6                      | 65      | 8     | 23     | 28    | 26                       | 3.54  | +0.82                     | 1.08                  | 0                         | 6                            | ..... | .....      | .....                        | nw.       |                                                                                                                             |
| Sandy Hook.....                             | Monmouth.....   | 22              | 28                      | 41.3                         | -0.3                      | 64      | 9     | 26     | 28    | 25                       | 2.99  | -0.20                     | 0.71                  | T.                        | 7                            | 10    | 11         | 9                            | w.        |                                                                                                                             |
| Means and extremes.....                     |                 |                 |                         | 45.2                         | -0.4                      | 66      | 10    | 23     | 12†   | 30                       | 3.02  | -0.12                     | 1.08                  | 0                         | 8                            | 15    | 8          | 7                            | nw.       |                                                                                                                             |
| For the State.....                          |                 |                 |                         | 42.5                         | -0.4                      | 76      | 9†    | 8      | 12†   | 42                       | 4.04  | +0.93                     | 2.70                  | T.                        | 9                            | 13    | 8          | 9                            | nw.       |                                                                                                                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Euglewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for November, 1926

| Stations                                   | Drainage Basin  | Day of month |     |   |   |     |   |     |     |        |      |     |    |    |     |     |      |      |      |     |     |    |    |    |    |    |    |     |      |    |     |     | Total |      |
|--------------------------------------------|-----------------|--------------|-----|---|---|-----|---|-----|-----|--------|------|-----|----|----|-----|-----|------|------|------|-----|-----|----|----|----|----|----|----|-----|------|----|-----|-----|-------|------|
|                                            |                 | 1            | 2   | 3 | 4 | 5   | 6 | 7   | 8   | 9      | 10   | 11  | 12 | 13 | 14  | 15  | 16   | 17   | 18   | 19  | 20  | 21 | 22 | 23 | 24 | 25 | 26 | 27  | 28   | 29 | 30  | 31  |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |   |   |     |   |     |     |        |      |     |    |    |     |     |      |      |      |     |     |    |    |    |    |    |    |     |      |    |     |     |       |      |
| Belvidere.....                             | Delaware.....   |              |     |   |   |     |   |     | T.  | .82    | .42  |     |    |    |     | .07 | 1.76 |      |      | .35 |     |    | T. |    |    |    |    | .07 |      |    |     | .75 |       | 4.24 |
| Charlotteburg.....                         | Passaic.....    |              | .09 |   |   |     |   |     |     | * 1.37 |      |     |    |    |     |     | 2.42 |      | *    | .50 |     |    |    |    |    |    |    | .72 |      |    |     | .36 |       | 5.46 |
| Culvers Lake.....                          | Delaware.....   | .02          | .03 |   |   | T.  |   |     |     | 1.20   | .45  |     |    |    |     | .01 | 1.41 | .10  | .01  | .28 |     | T. |    |    |    |    |    | .06 | .28  |    |     | .32 |       | 4.17 |
| Dover.....                                 | Passaic.....    |              | .06 |   |   |     |   |     |     | * 1.21 |      |     |    |    |     |     | 1.95 |      | *    | .36 |     |    |    |    |    |    |    | .65 |      |    |     | .40 |       | 4.63 |
| Layton.....                                | Delaware.....   | T.           | .05 |   |   |     |   |     |     | 1.12   | .18  |     |    |    |     | .05 | 1.78 | .08  |      | .32 |     |    |    |    |    |    |    | .16 | .48  |    |     | .34 |       | 4.56 |
| Newton.....                                | Delaware.....   | .01          | .04 |   |   |     |   |     |     | .62    | .35  |     |    |    |     |     | 2.10 | .03  |      | .23 |     |    | T. |    |    |    |    | .09 | .50  |    |     | .32 |       | 4.29 |
| Phillipsburg.....                          | do.....         |              | *   |   |   |     |   |     |     | 1.20   |      |     |    |    |     | .07 | 1.78 |      | .16  | .09 |     |    |    |    |    |    |    | .34 | .08  |    |     | .42 |       | 4.14 |
| Sussex.....                                | Hudson.....     | .02          | .05 |   |   | .03 |   |     |     | .41    | .31  |     |    |    |     |     | 1.41 | .12  | .18  | .25 |     |    |    |    |    |    |    | .06 | .44  |    |     | .35 |       | 3.63 |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |   |   |     |   |     |     |        |      |     |    |    |     |     |      |      |      |     |     |    |    |    |    |    |    |     |      |    |     |     |       |      |
| Bergen Point**.....                        | Coast.....      |              | .01 |   |   |     |   | .01 |     | .93    | .28  |     |    |    |     | T.  | .84  | T.   | .22  | .19 |     |    |    |    |    |    |    | .44 |      |    |     | .42 |       | 3.34 |
| Boonton   .....                            | Passaic.....    | .60          | .02 |   |   |     |   |     |     | .41    | 1.31 |     |    |    |     |     | .04  | 1.48 |      | .55 |     |    |    |    |    |    |    | T.  | .64  |    |     | .49 |       | 5.54 |
| Chatham  .....                             | do.....         | .96          | .06 |   |   |     |   |     | T.  | .52    | 2.70 |     |    |    |     |     | T.   | 1.54 |      | .55 |     |    |    |    |    |    |    | .03 | .78  |    |     | .05 |       | 7.19 |
| Elizabeth.....                             | Coast.....      | .01          |     |   |   |     |   | T.  |     | 1.10   | .51  |     |    |    |     |     | T.   | .61  | .20  | T.  | .25 |    | T. |    |    |    |    | .11 | .48  |    |     | .61 |       | 3.88 |
| Flemington.....                            | Raritan.....    | .02          |     |   |   |     |   | T.  |     | .32    | .72  |     |    |    |     |     | .02  | .66  | .08  | T.  | .11 |    | T. |    |    |    |    | .06 | .49  |    |     | .86 |       | 3.34 |
| Highwood.....                              | Hackensack..... | .01          |     |   |   |     |   | T.  |     | 1.32   | .40  |     |    |    |     |     | .91  | .04  | .06  | .54 |     | T. |    |    |    |    |    | .08 | .37  |    |     | .55 |       | 4.28 |
| Jersey City.....                           | Coast.....      |              | .02 |   |   |     |   | T.  | .07 | .69    | .40  |     |    |    |     |     | .55  |      | .01  | .55 |     | T. |    |    |    |    |    | .57 |      |    |     | .40 |       | 3.26 |
| Lambertville.....                          | Delaware.....   |              | .03 |   |   |     |   |     | .02 | .48    | 1.05 |     |    |    |     | .06 | .03  | .96  | .09  | .12 |     |    |    |    |    |    |    | .06 | .47  |    |     | .85 |       | 4.22 |
| Little Falls,   .....                      | Passaic.....    | .78          | .02 |   |   |     |   |     |     | .78    | 1.37 |     |    |    |     |     | T.   | 1.57 |      | .37 |     |    |    |    |    |    |    | .01 | .64  |    |     | .66 |       | 6.20 |
| New Brunswick.....                         | Raritan.....    | T.           | T.  |   |   |     |   |     |     | .02    | .84  | .35 |    |    |     |     | 1.05 | .16  | .02  | .37 |     | T. |    |    |    |    |    | .08 | .43  |    |     | .46 |       | 3.78 |
| New Milford.**.....                        | Hackensack..... |              |     |   |   |     |   |     |     | 1.93   | .20  |     |    |    |     |     | .88  |      | .18  | .23 |     |    |    |    |    |    |    | .02 |      |    |     | .57 |       | 4.61 |
| Paterson.....                              | Passaic.....    | .04          |     |   |   |     |   |     |     | 1.60   | .69  |     |    |    |     |     | .97  | .18  | .09  | .34 |     | T. |    | T. |    |    |    | .10 | .50  |    |     | .60 |       | 5.11 |
| Plainfield.....                            | Raritan.....    |              | .01 |   |   |     |   |     | T.  | .59    | 1.09 |     |    |    |     |     | 1.18 |      | .04  | .42 | T.  | T. |    |    |    |    |    | .60 |      |    |     | .82 |       | 4.75 |
| Ridgefield.....                            | Hackensack..... |              | .02 |   |   |     |   | .01 |     | .84    |      |     |    |    |     |     | .73  |      | .05  | .45 |     | T. |    |    |    |    |    | .36 |      |    |     | .55 |       | 3.01 |
| Somerville.....                            | Raritan.....    |              | .01 |   |   |     |   |     |     | .57    | .74  |     |    |    |     |     | 1.24 | .12  | .03  | .34 |     | T. |    |    |    |    |    | .04 | .54  |    |     | .89 |       | 4.52 |
| South Orange.....                          | Rahway.....     |              | .06 |   |   |     |   |     |     | 1.08   | .53  |     |    |    |     |     | 2.50 |      | .05  |     |     |    |    |    |    |    |    |     |      |    |     |     |       |      |
| Verona**.....                              | Passaic.....    |              | .03 |   |   |     |   |     |     | 1.62   | .12  |     |    |    |     |     | .85  |      | .09  | .27 |     | T. |    |    |    |    |    | .52 |      |    |     | .69 |       | 4.19 |
| Woodcliff Lake***.....                     | Hackensack..... |              | .02 |   |   |     |   |     |     | 1.67   | .23  |     |    |    |     |     | .80  |      | .15  | .10 |     |    |    |    |    |    |    | .50 |      |    |     | .42 |       | 3.89 |
| New York, N. Y***.....                     | Coast.....      |              | .02 |   |   |     |   | .07 |     | .92    | .22  |     |    |    |     |     | .51  |      | .30  | .20 |     | T. |    |    |    |    |    | .47 |      |    | T.  | .41 |       | 3.12 |
| <i>The Southern Interior.</i>              |                 |              |     |   |   |     |   |     |     |        |      |     |    |    |     |     |      |      |      |     |     |    |    |    |    |    |    |     |      |    |     |     |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |     |   |   |     |   |     | .07 | .67    | .14  |     |    |    |     |     | 1.40 | .01  | T.   | .04 |     |    |    |    |    |    |    |     | .35  |    |     | .17 |       | 2.85 |
| Bridgeton.....                             | Coast.....      |              |     |   |   |     |   |     |     | .43    |      |     |    |    |     |     | 1.43 |      |      |     |     |    |    |    |    |    |    |     | 1.15 |    |     | .40 |       | 3.41 |
| Burlington.....                            | Delaware.....   |              | .02 |   |   |     |   |     | .03 | .38    | .42  |     |    |    |     |     | .03  | 1.30 | .16  | T.  | .03 |    | T. |    |    |    |    | .06 | .57  |    |     | .48 |       | 3.48 |
| Clayton.....                               | Delaware.....   |              |     |   |   |     |   |     |     |        |      |     |    |    |     |     |      |      |      |     |     |    |    |    |    |    |    |     |      |    |     |     |       |      |
| Hammonton.....                             | Mullica.....    |              |     |   |   |     |   |     |     |        |      |     |    |    |     |     |      |      |      |     |     |    |    |    |    |    |    |     |      |    |     |     |       |      |
| Hightstown.....                            | Raritan.....    |              | T.  |   |   |     |   |     | T.  | .51    | .40  |     |    |    |     | .01 | T.   | .95  | .14  | *   | .31 |    |    |    |    |    |    | .06 | .37  |    |     | .52 |       | 3.27 |
| Imlaystown.....                            | Delaware.....   |              |     |   |   |     |   |     |     | .50    | .11  |     |    |    |     |     | .62  |      | .19  |     |     |    |    |    |    |    |    | .08 | .56  |    |     | .68 |       | 2.74 |
| Indian Mills.....                          | Mullica.....    | .14          |     |   |   |     |   |     |     | 1.16   |      |     |    |    |     |     | T.   | 1.36 |      | .05 |     |    |    |    |    |    |    | .18 | .66  |    |     | .55 |       | 4.10 |
| Lakewood.....                              | Metedeconk..... | .04          | T.  |   |   |     |   | .08 |     | 1.35   | .13  |     |    |    |     |     | .82  |      | .03  | .20 |     |    |    |    |    |    |    | T.  | .88  |    |     | .58 |       | 4.11 |
| Moorestown.....                            | Delaware.....   |              | T.  |   |   |     |   |     |     | *      | .91  |     |    |    |     |     | T.   | T.   | 1.67 |     | .03 |    |    |    |    |    |    | *   | .73  |    |     | .53 |       | 3.87 |
| Northfield.....                            | Coast.....      |              |     |   |   |     |   | .09 |     | .64    | .27  |     |    |    |     |     | .87  |      | .01  | .09 |     |    |    |    |    |    |    |     | .64  |    |     | .50 |       | 3.13 |
| Pleasantville   .....                      | Coast.....      | .22          |     |   |   |     |   |     | .09 | .03    | .87  |     |    |    |     |     |      | .83  |      | .09 |     |    |    |    |    |    |    | .01 | .70  |    |     | .48 |       | 3.32 |
| Riverton   .....                           | Delaware.....   | 1.25         | T.  |   |   |     |   |     | .02 | .29    | .64  | T.  |    |    | .01 | .01 | .03  | 1.16 | T.   | .08 |     |    |    |    |    |    |    | .04 | .65  | T. |     | .51 |       | 4.69 |
| Runyon.....                                | Coast.....      | .09          |     |   |   |     |   |     |     | .95    | .35  |     |    |    |     |     | .92  | .17  |      | .34 |     |    |    |    |    |    |    |     | .53  |    |     | .50 |       | 3.80 |
| Trenton***.....                            | Delaware.....   |              | T.  |   |   |     |   |     | T.  | .03    | 1.15 | .14 |    |    |     | T.  | T.   | 2.02 |      | .08 | .14 | T. | T. |    |    |    |    | .80 |      |    | .01 | .56 |       | 4.79 |
| Tuckerton.....                             | Coast.....      | .21          |     |   |   |     |   |     |     | .04    | .40  | .30 |    |    |     |     | 1.10 | .05  | .10  | .15 |     |    |    |    |    |    |    | .05 | .90  |    |     | .50 |       | 3.80 |
| Vineland.....                              | Maurice.....    |              |     |   |   |     |   |     |     | .64    |      |     |    |    |     |     | 1.50 |      |      |     |     |    |    |    |    |    |    | .03 | .76  |    |     | .41 |       | 3.34 |
| Phila., Pa***.....                         | Delaware.....   |              | T.  |   |   |     |   |     | T.  | .01    | .92  | .05 |    |    |     |     | T.   | .99  |      | .02 | .01 |    | T. |    |    |    |    | .60 | .01  |    |     | .46 |       | 3.07 |
| <i>The Sea Coast.</i>                      |                 |              |     |   |   |     |   |     |     |        |      |     |    |    |     |     |      |      |      |     |     |    |    |    |    |    |    |     |      |    |     |     |       |      |
| Asbury Park.....                           | Coast.....      |              | T.  |   |   |     |   | .10 | .04 | .70    | .15  |     |    |    | .02 |     | .65  |      | .05  | .70 |     |    |    |    |    |    |    | .20 |      |    |     | .50 |       | 3.11 |
| Atlantic City***.....                      | do.....         |              |     |   |   |     |   | .02 |     | .41    | .02  |     |    |    |     |     | .78  |      | .15  |     |     |    |    |    |    |    |    | .61 | .01  |    |     | .44 |       | 2.44 |
| Cape May City.....                         | do.....         |              | T.  |   |   |     |   |     |     | 1.08   | .58  |     |    |    |     |     | .68  |      | T.   |     |     |    |    |    |    |    |    | .45 | .30  |    |     | .45 |       | 3.54 |
| Sandy Hook***.....                         | do.....         |              | T.  |   |   | T.  |   | T.  |     | .71    |      |     |    |    |     | T.  | T.   | .57  |      | .53 | .11 |    | T. |    | T. |    |    | .53 |      |    | .03 | .51 |       | 2.99 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           | Moisture                               |                                           |                                         | Sun-<br>shine |       |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|-------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |       |
|                       |              |         |      |        |      |                 | Miles per hour | Direction |                                        |                                           |                                         |               | Date  |
| Atlantic City.....    | 30.14        | 30.59   | 12   | 29.37  | 16   | 18.3            | 72             | se.       | 16                                     | 75                                        | 63                                      | 71            | 64    |
| New York, N. Y.....   | 30.12        | 30.58   | 12   | 29.31  | 16   | 19.2            | 70             | s.        | 16                                     | 72                                        | 59                                      | 68            | 60    |
| Philadelphia, Pa..... | 30.14        | 30.60   | 12   | 29.24  | 16   | 8.9             | 45             | sw.       | 16                                     | 79                                        | 68                                      | 77            | 51    |
| Ridgefield.....       | 30.12        | 30.59   | 12   | 29.32  | 16   | .....           | .....          | .....     | .....                                  | .....                                     | .....                                   | .....         | ..... |
| Sandy Hook.....       | 30.12        | 30.59   | 12   | 29.30  | 16   | 17.5            | 65             | sw.       | 16                                     | 74                                        | 66                                      | 73            | 55    |
| Trenton.....          | 30.12        | 30.59   | 12   | 29.32  | 16   | 11.4            | 49             | s.        | 16                                     | 80                                        | 64                                      | 75            | 53    |
| Verona.....           | 30.10        | 30.63   | 12   | 29.33  | 16   | 7.6             | 35             | se        | 16                                     | 58*                                       | 66                                      | .....         | ..... |

\* 7 a. m



## Daily Temperatures for November, 1926

| Stations                             | 1       | 2  | 3     | 4  | 5  | 6     | 7  | 8     | 9  | 10    | 11 | 12 | 13 | 14    | 15    | 16 | 17 | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31                | Mean              |
|--------------------------------------|---------|----|-------|----|----|-------|----|-------|----|-------|----|----|----|-------|-------|----|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |       |    |    |       |    |       |    |       |    |    |    |       |       |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Belvidere.....                       | Maximum | 60 | 48    | 51 | 50 | 50    | 57 | 63    | 62 | 68    | 60 | 40 | 43 | 49    | 58    | 71 | 66 | 57    | 50    | 52    | 41    | 40    | 44    | 46    | 45    | 45    | 51    | 54    | 38    | 46    | 47                | 51.7              |
|                                      | Minimum | 27 | 34    | 31 | 21 | 28    | 26 | 28    | 41 | ..... | 34 | 23 | 17 | 24    | 32    | 40 | 53 | 35    | 31    | 36    | 31    | 24    | 28    | 27    | 22    | 24    | 32    | 31    | 19    | 26    | 36                | 29.7 <sup>a</sup> |
| Charlotteburg.....                   | Maximum | 54 | 50    | 46 | 48 | 46    | 58 | 62    | 62 | ..... | 36 | 40 | 55 | 53    | 65    | 63 | 57 | 50    | 45    | 38    | 40    | 42    | 45    | 45    | 50    | 55    | 48    | 42    | 46    | 45    | 49.5 <sup>b</sup> |                   |
|                                      | Minimum | 25 | 28    | 29 | 21 | 27    | 21 | 23    | 41 | 39    | 36 | 21 | 12 | 18    | 26    | 43 | 52 | 34    | 23    | 36    | 29    | 28    | 24    | 30    | 29    | 27    | 39    | 35    | 17    | 29    | 33                | 29.2              |
| Dover.....                           | Maximum | 52 | 49    | 47 | 44 | 50    | 54 | 61    | 61 | 67    | 60 | 47 | 40 | 52    | 57    | 66 | 64 | 57    | 48    | 49    | 42    | 37    | 41    | 44    | 48    | 41    | 56    | 41    | 42    | 46    | 45                | 50.3              |
|                                      | Minimum | 28 | 33    | 27 | 21 | 29    | 24 | 27    | 45 | 48    | 31 | 21 | 14 | 24    | 30    | 46 | 44 | 33    | 28    | 31    | 30    | 25    | 31    | 27    | 25    | 32    | 22    | 18    | 25    | 34    | 29.4              |                   |
| Layton.....                          | Maximum | 53 | 48    | 41 | 46 | 49    | 54 | 61    | 64 | 65    | 65 | 35 | 38 | 50    | 52    | 65 | 66 | 56    | 45    | 46    | 40    | 38    | 40    | 41    | 48    | 52    | 50    | 57    | 38    | 45    | 45                | 49.8              |
|                                      | Minimum | 27 | 29    | 20 | 20 | 26    | 22 | 25    | 33 | 38    | 35 | 23 | 11 | 24    | 30    | 40 | 53 | 33    | 35    | 35    | 31    | 31    | 25    | 31    | 31    | 25    | 31    | 26    | 18    | 28    | 32                | 28.9              |
| Newton.....                          | Maximum | 54 | 49    | 48 | 46 | 49    | 55 | 64    | 67 | 67    | 70 | 39 | 39 | 49    | 58    | 70 | 70 | 57    | 48    | 51    | 40    | 36    | 39    | 43    | 47    | 43    | 55    | 55    | 38    | 45    | 44                | 51.2              |
|                                      | Minimum | 29 | 35    | 32 | 24 | 33    | 30 | 33    | 44 | 47    | 35 | 23 | 16 | 25    | 32    | 42 | 53 | 37    | 33    | 35    | 30    | 25    | 31    | 30    | 23    | 31    | 27    | 18    | 28    | 37    | 31.6              |                   |
| Phillipsburg.....                    | Maximum | 54 | 50    | 51 | 46 | ..... | 55 | 60    | 69 | 69    | 71 | 43 | 42 | 51    | ..... | 73 | 67 | 57    | 57    | 59    | ..... | 43    | 41    | 47    | 52    | 44    | 61    | 60    | 40    | 51    | 49                | 54.1 <sup>c</sup> |
|                                      | Minimum | 34 | 37    | 32 | 27 | 34    | 37 | 32    | 42 | 52    | 34 | 27 | 21 | 27    | ..... | 46 | 45 | 36    | 32    | 35    | 33    | 32    | 27    | 29    | 29    | 27    | 33    | 27    | 22    | 27    | 35                | 32.8 <sup>a</sup> |
| Sussex.....                          | Maximum | 55 | 51    | 45 | 48 | 48    | 55 | 64    | 64 | 66    | 66 | 40 | 41 | 50    | 53    | 68 | 65 | 58    | 45    | 48    | 41    | 39    | 40    | 43    | 48    | 46    | 45    | 56    | 39    | 46    | 45                | 50.6              |
|                                      | Minimum | 28 | 30    | 33 | 20 | 27    | 22 | 27    | 36 | 40    | 37 | 22 | 15 | 25    | 31    | 41 | 55 | 37    | 27    | 38    | 31    | 30    | 24    | 30    | 28    | 22    | 28    | 20    | 27    | 34    | 29.8              |                   |
| The Red Sandstone Plain.             |         |    |       |    |    |       |    |       |    |       |    |    |    |       |       |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |
| Bergen Point.....                    | Maximum | 53 | ..... | 51 | 46 | 54    | 58 | 57    | 64 | 65    | 67 | 38 | 38 | 50    | 57    | 65 | 64 | 57    | 54    | 54    | 42    | 39    | 46    | 47    | 50    | 45    | 56    | 56    | 41    | 52    | 48                | 52.2 <sup>a</sup> |
|                                      | Minimum | 36 | 39    | 38 | 32 | 39    | 32 | 38    | 49 | 54    | 38 | 28 | 25 | 31    | 40    | 45 | 51 | 40    | 48    | 39    | 30    | 35    | 28    | 33    | 34    | 30    | 38    | 29    | 24    | 31    | 42                | 36.5              |
| Boonton§§.....                       | Maximum | 54 | 51    | 48 | 47 | 49    | 54 | 62    | 65 | 68    | 52 | 49 | 42 | 50    | 60    | 68 | 66 | 56    | 51    | 47    | 44    | 38    | 41    | 45    | 49    | 44    | 55    | 43    | 40    | 47    | 47                | 51.1              |
|                                      | Minimum | 29 | 31    | 31 | 25 | 26    | 23 | 26    | 28 | 40    | 49 | 25 | 16 | 23    | 28    | 39 | 50 | 37    | 27    | 39    | 27    | 32    | 27    | 26    | 25    | 24    | 26    | 37    | 18    | 22    | 31                | 29.6              |
| Elizabeth.....                       | Maximum | 54 | 54    | 53 | 47 | 52    | 56 | 63    | 65 | 69    | 68 | 40 | 43 | 50    | 60    | 67 | 66 | 57    | 52    | 53    | 44    | 40    | 43    | 47    | 49    | 45    | 57    | 58    | 49    | 51    | 49                | 53.4              |
|                                      | Minimum | 31 | 33    | 30 | 27 | 29    | 27 | 30    | 47 | 51    | 39 | 27 | 21 | 25    | 33    | 43 | 56 | 39    | 34    | 40    | 30    | 34    | 24    | 31    | 27    | 24    | 31    | 38    | 21    | 28    | 38                | 32.9              |
| Flemington.....                      | Maximum | 58 | 52    | 52 | 51 | 53    | 56 | 65    | 62 | 69    | 67 | 41 | 46 | 49    | 60    | 71 | 66 | 58    | 51    | 53    | 43    | 39    | 42    | 46    | 47    | 47    | 51    | 57    | 40    | 49    | 48                | 53.0              |
|                                      | Minimum | 32 | 33    | 32 | 24 | 29    | 27 | 28    | 45 | 50    | 37 | 25 | 20 | 24    | 33    | 43 | 56 | 38    | 31    | 38    | 30    | 32    | 25    | 30    | 26    | 24    | 28    | 34    | 19    | 23    | 35                | 31.7              |
| Highwood.....                        | Maximum | 51 | 51    | 50 | 46 | 52    | 54 | 61    | 63 | 65    | 65 | 39 | 40 | 50    | 61    | 65 | 65 | 56    | 51    | 51    | 41    | 39    | 42    | 45    | 51    | 46    | 56    | 56    | 36    | 49    | 47                | 51.5              |
|                                      | Minimum | 28 | 33    | 30 | 20 | 28    | 26 | 28    | 43 | 45    | 36 | 24 | 17 | 26    | 32    | 39 | 55 | 37    | 31    | 37    | 30    | 31    | 24    | 29    | 28    | 22    | 31    | 28    | 28    | 30    | 37                | 31.1              |
| Jersey City.....                     | Maximum | 52 | 51    | 49 | 46 | 50    | 55 | 60    | 62 | 67    | 64 | 37 | 40 | 49    | 59    | 64 | 63 | 55    | 52    | 52    | 42    | 39    | 42    | 45    | 49    | 43    | 56    | 54    | 39    | 51    | 52                | 51.3              |
|                                      | Minimum | 37 | 39    | 36 | 32 | 38    | 36 | 42    | 50 | 51    | 37 | 27 | 26 | 32    | 44    | 50 | 47 | 41    | 43    | 39    | 32    | 34    | 28    | 32    | 36    | 31    | 43    | 29    | 23    | 34    | 39                | 36.9              |
| Lambertville.....                    | Maximum | 48 | 49    | 45 | 44 | 46    | 53 | 60    | 62 | 67    | 65 | 37 | 38 | 46    | 59    | 68 | 65 | 55    | 51    | 54    | 40    | 35    | 39    | 44    | 46    | 44    | 57    | 55    | 35    | 47    | 47                | 50.0              |
|                                      | Minimum | 32 | 35    | 32 | 25 | 33    | 31 | 33    | 46 | 49    | 35 | 25 | 20 | 27    | 36    | 44 | 55 | 37    | 35    | 36    | 29    | 29    | 24    | 29    | 28    | 25    | 31    | 32    | 18    | 26    | 41                | 32.6              |
| Little Falls§§.....                  | Maximum | 58 | 50    | 51 | 46 | 49    | 57 | 59    | 64 | 69    | 51 | 49 | 41 | 54    | 62    | 66 | 64 | 56    | 51    | 47    | 41    | 39    | 41    | 47    | 52    | 45    | 47    | 44    | 43    | 49    | 48                | 51.3              |
|                                      | Minimum | 32 | 34    | 32 | 24 | 29    | 27 | 31    | 37 | 42    | 49 | 26 | 18 | 27    | 31    | 42 | 54 | 41    | 40    | 41    | 31    | 33    | 27    | 32    | 28    | 26    | 30    | 40    | ..... | 27    | 33                | 32.9 <sup>a</sup> |
| New Brunswick.....                   | Maximum | 53 | 51    | 49 | 46 | 51    | 59 | 60    | 59 | 72    | 68 | 38 | 40 | 48    | 63    | 68 | 67 | 57    | 53    | 53    | 42    | 38    | 42    | 52    | 50    | 46    | 58    | 59    | 38    | 52    | 50                | 52.7              |
|                                      | Minimum | 32 | 34    | 32 | 26 | 32    | 29 | 31    | 48 | 50    | 37 | 26 | 21 | 26    | 34    | 42 | 56 | 40    | 32    | 37    | 30    | 32    | 25    | 30    | 27    | 26    | 31    | 33    | 21    | 26    | 42                | 32.9              |
| Paterson.....                        | Maximum | 51 | 53    | 50 | 47 | 52    | 56 | 62    | 65 | 64    | 56 | 40 | 41 | 52    | 60    | 65 | 64 | 58    | 49    | 51    | 43    | 40    | 47    | 47    | 51    | 48    | 54    | 54    | 36    | 50    | 48                | 51.7              |
|                                      | Minimum | 33 | 37    | 35 | 29 | 35    | 31 | 32    | 46 | 48    | 40 | 27 | 23 | 30    | 36    | 45 | 55 | 40    | 34    | 35    | 32    | 34    | 28    | 33    | 32    | 30    | 34    | 30    | 21    | 31    | 40                | 34.5              |
| Plainfield.....                      | Maximum | 53 | 51    | 50 | 47 | 47    | 55 | 62    | 62 | 70    | 65 | 38 | 40 | 48    | 61    | 70 | 66 | 55    | 52    | 49    | 42    | 38    | 42    | 46    | 48    | 43    | 56    | 53    | 42    | 51    | 49                | 51.7              |
|                                      | Minimum | 28 | 30    | 30 | 25 | 30    | 24 | 27    | 41 | 49    | 38 | 25 | 16 | 23    | 30    | 37 | 49 | 40    | 28    | 38    | 30    | 32    | 25    | 24    | 26    | 23    | 40    | 29    | 20    | 24    | 30                | 30.4              |
| Ridgefield.....                      | Maximum | 54 | 52    | 50 | 47 | 52    | 54 | 61    | 64 | 66    | 60 | 38 | 42 | 48    | 59    | 64 | 64 | 56    | 51    | 49    | 42    | 39    | 42    | 46    | 50    | 43    | 57    | 54    | 36    | 49    | 46                | 51.2              |
|                                      | Minimum | 31 | 36    | 31 | 25 | 36    | 31 | 33    | 48 | 50    | 31 | 25 | 21 | 39    | 36    | 46 | 43 | 36    | 35    | 32    | 30    | 31    | 27    | 32    | 32    | 28    | 35    | 24    | 21    | 31    | 37                | 32.8              |
| Somerville.....                      | Maximum | 55 | 51    | 51 | 48 | 52    | 56 | 63    | 63 | 73    | 68 | 39 | 44 | 49    | 63    | 71 | 68 | 57    | 52    | 52    | 43    | 40    | 43    | 46    | 49    | 46    | 58    | 57    | 40    | 50    | 49                | 53.2              |
|                                      | Minimum | 31 | 33    | 30 | 21 | 26    | 24 | 26    | 44 | 51    | 38 | 26 | 16 | 21    | 31    | 39 | 56 | 39    | 29    | 38    | 30    | 34    | 28    | 27    | 24    | 21    | 30    | 34    | 19    | 23    | 35                | 30.6              |
| South Orange.....                    | Maximum | 52 | 52    | 55 | 49 | 50    | 54 | 60    | 63 | 70    | 66 | 50 | 45 | 50    | 60    | 65 | 63 | 54    | ..... | 53    | ..... | 44    | ..... | 55    | ..... | 55    | ..... | ..... | ..... | ..... | .....             | 55.5 <sup>a</sup> |
|                                      | Minimum | 32 | 39    | 38 | 25 | 41    | 32 | ..... | 48 | 54    | 38 | 25 | 22 | ..... | 37    | 47 | 49 | ..... | 40    | ..... | 30    | ..... | 25    | ..... | 26    | ..... | 25    | 20    | 29    | ..... | 34.4 <sup>a</sup> |                   |
| Verona.....                          | Maximum | 50 | 49    | 47 | 44 | 49    | 53 | 60    | 62 | 66    | 63 | 35 | 39 | 50    | 58    | 64 | 63 | 53    | 49    | 50    | 40    | 38    | 40    | 44    | 48    | 40    | 55    | 54    | 37    | 48    | 46                | 49.8              |
|                                      | Minimum | 33 | 38    | 30 | 26 | 33    | 32 | 36    | 48 | 48    | 30 | 22 | 19 | 28    | 38    | 47 | 44 | 39    | 39    | 34    | 30    | 32    | 25    | 32    | 31    | 27    | 36    | 23    | 20    | 31    | 41                | 33.1              |
| New York, N. Y.....                  | Maximum | 51 | 50    | 49 | 46 | 50    | 55 | 59    | 62 | 65    |    |    |    |       |       |    |    |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI.

DECEMBER, 1926.

No. 12

### GENERAL SUMMARY.

The month started with a rapid decrease in temperature, and there were cold waves on the 2d and 5th; during this first week it was in the neighborhood of 15° below normal. And again from the 16th to the 19th, temperatures were from 12° to 20° below normal. Zero readings were reported very generally in the northern half of the State, and portions of the southern interior, on the 7th, which was the day of lowest minima. Thereafter temperature fluctuations were about normal. The mean temperature of the entire State averaged 28.4°, and has been exceeded by only three colder Decembers, viz. in 1904, 1910 and 1917. Nearly all ponds and many streams were frozen early in the month, and remained closed. The Delaware River was frozen over the greater part of the month from Trenton upstream.

A snowstorm on the 5th, amounting to about 7 inches in the northern half of the State and less than half that depth in the southern half, was one of the heaviest early December storms of record. This snow had nearly all vanished by the middle of the month, but in shaded places there were traces of it on the ground at the close of the month.

Precipitation was frequent and scattered with fair regularity throughout the month. Occurrences of measureable snow varied from two days in the south to twelve in the north. Glaze formed to a considerable extent on the night of the 25-26th, but only slight damage to frail shrubbery and insecure wires resulted. Foot and vehicular traffic was unsafe from the icy pavements.

Although there was but little severely stormy weather, there was excessive cloudiness with a resulting deficiency of sunshine.

Storm warnings were displayed along the coast on the 5th, 6th, 13th, 25th, and 28th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 28.4°, which was 4.4° below normal. The highest temperature was 52° at Runyon and Asbury Park on the 1st and 29th, respectively, and the lowest, 7° below zero at Somerville on the 7th. The greatest daily range of temperature was 42° at Little Falls on the 7th. The highest monthly mean temperature was 33.4° at Cape May City, and the lowest, 23.2° at Layton.

The temperature departure from the normal for the year 1926, to date, by sections, is: The Highlands, -1.5°; Red Sandstone Plain, -1.9°; Southern Interior, -1.3°; Sea Coast, -0.8°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 3.44 inches, which was 0.54 inch below normal. The average total snowfall at twenty-two selected stations was 8.2 inches, which was 1.8 inches above normal.

The greatest monthly precipitation was 4.74 inches, at Chatham, and the least, 1.67 inches at Layton. The greatest amount of precipitation in any 24 consecutive hours was 1.90 inches at Tuckerton on the 28-29th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1926, to date, by sections, is: The Highlands, -4.11

inches; Red Sandstone Plain, +0.88 inch; Southern Interior, -3.03 inches; Sea Coast, -2.47 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 13 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive minutes, was 60 miles per hour from the northwest at Sandy Hook on the 2d.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which was 1 less than normal; partly cloudy, 7, or 2 less than normal; cloudy, 13, or 3 more than normal. The per cent of possible sunshine was 45, which was 7 per cent below normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.10 inches, which was normal. The highest reading was 30.62 inches at Sandy Hook and Trenton, on the 18th and 19th, respectively, and the lowest 29.52 inches at Atlantic City on the 26th.

The mean stage of the Delaware River at Trenton was 2.3 feet, which was 0.3 foot below normal. The river was frozen practically the whole month at Phillipsburg.

Dense fog was observed on the 13th and 14th. Solar halos were noted on the 3d, 4th, 9th, 19th, and 31st; and lunar halos on the 17th and 19th. Sleet fell on the 3d, 5th, 7th to the 11th inclusive, 14th, 15th, 20th, 21st, 24th, 25th, 26th and 28th.

### COMPARATIVE DATA FOR DECEMBER

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                         |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|-------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | 0.01 inch or more prec. |
| 1885..... | 35.3        | 60      | -6     | 3.15          | 4.33      | 2.47  | .....    | .....       | .....         | .....  | .....                   |
| 1886..... | 29.1        | 60      | -2     | 3.51          | 4.65      | 1.62  | .....    | .....       | .....         | .....  | .....                   |
| 1887..... | 33.7        | 62      | 6      | 5.29          | 7.32      | 3.64  | .....    | .....       | .....         | 12     | 10                      |
| 1888..... | 34.9        | 65      | 5      | 3.69          | 4.95      | 2.05  | .....    | .....       | .....         | 8      | 8                       |
| 1889..... | 41.5        | 71      | 1      | 1.62          | 3.69      | 0.25  | .....    | .....       | .....         | 9      | 9                       |
| 1890..... | 30.9        | 56      | 3      | 3.89          | 5.74      | 2.34  | .....    | 11          | 10            | 10     | 8                       |
| 1891..... | 40.9        | 71      | 9      | 4.25          | 5.32      | 2.25  | .....    | 13          | 9             | 9      | 8                       |
| 1892..... | 30.4        | 63      | 1      | 1.87          | 3.09      | 1.30  | .....    | 9           | 11            | 11     | 6                       |
| 1893..... | 34.9        | 70      | 5      | 3.39          | 4.66      | 1.67  | .....    | 11          | 10            | 10     | 11                      |
| 1894..... | 34.8        | 66      | -3     | 4.36          | 6.39      | 1.64  | .....    | 12          | 9             | 10     | 9                       |
| 1895..... | 37.2        | 70      | 3      | 2.61          | 5.42      | 1.71  | 0.4      | 11          | 9             | 11     | 6                       |
| 1896..... | 31.3        | 64      | -15    | 1.43          | 2.70      | 0.85  | 10.7     | 14          | 9             | 8      | 4                       |
| 1897..... | 35.1        | 69      | -3     | 4.90          | 6.44      | 3.07  | 3.4      | 8           | 11            | 12     | 11                      |
| 1898..... | 33.3        | 66      | -2     | 3.53          | 4.85      | 2.38  | 2.0      | 12          | 10            | 9      | 9                       |
| 1899..... | 35.5        | 69      | -1     | 2.11          | 4.30      | 1.29  | 0.5      | 14          | 10            | 7      | 7                       |
| 1900..... | 34.4        | 64      | -2     | 2.59          | 3.97      | 1.47  | 4.1      | 14          | 10            | 7      | 6                       |
| 1901..... | 32.6        | 68      | -8     | 7.30          | 9.45      | 4.87  | 2.1      | 12          | 9             | 10     | 11                      |
| 1902..... | 31.7        | 62      | -11    | 7.23          | 8.99      | 5.81  | 9.1      | 13          | 7             | 11     | 13                      |
| 1903..... | 28.6        | 56      | -13    | 4.08          | 5.49      | 3.20  | 9.2      | 14          | 9             | 8      | 9                       |
| 1904..... | 27.0        | 60      | -15    | 3.19          | 5.38      | 2.06  | 21.1     | 10          | 7             | 14     | 12                      |
| 1905..... | 36.3        | 61      | 5      | 3.65          | 5.60      | 2.58  | 1.5      | 14          | 8             | 9      | 7                       |
| 1906..... | 33.0        | 70      | -5     | 3.99          | 6.18      | 2.70  | 1.4      | 9           | 8             | 14     | 13                      |
| 1907..... | 36.6        | 70      | -3     | 4.91          | 7.13      | 3.55  | 5.9      | 12          | 8             | 11     | 9                       |
| 1908..... | 34.0        | 72      | 1      | 3.63          | 5.26      | 2.10  | 7.8      | 10          | 8             | 13     | 11                      |
| 1909..... | 29.8        | 60      | -15    | 4.45          | 5.51      | 3.55  | 12.6     | 14          | 8             | 9      | 5                       |
| 1910..... | 26.5        | 58      | -14    | 2.79          | 4.60      | 1.92  | 11.3     | 11          | 10            | 10     | 9                       |
| 1911..... | 38.4        | 70      | 2      | 3.77          | 5.09      | 2.94  | 5.6      | 10          | 7             | 14     | 11                      |
| 1912..... | 36.9        | 68      | -1     | 4.73          | 6.33      | 3.40  | 11.0     | 12          | 9             | 10     | 9                       |
| 1913..... | 37.7        | 63      | -11    | 3.08          | 4.59      | 1.47  | 0.8      | 13          | 9             | 9      | 7                       |
| 1914..... | 31.1        | 66      | -9     | 5.33          | 9.12      | 2.99  | 2.4      | 10          | 6             | 15     | 12                      |
| 1915..... | 31.9        | 64      | 3      | 4.82          | 7.83      | 2.19  | 13.6     | 12          | 9             | 10     | 8                       |
| 1916..... | 32.3        | 70      | -8     | 4.61          | 6.34      | 3.35  | 12.6     | 13          | 8             | 10     | 11                      |
| 1917..... | 24.8        | 54      | -27    | 3.18          | 5.46      | 1.55  | 11.5     | 13          | 7             | 11     | 8                       |
| 1918..... | 37.5        | 66      | 9      | 3.92          | 4.94      | 3.21  | 0.5      | 12          | 7             | 12     | 10                      |
| 1919..... | 28.8        | 67      | -18    | 2.98          | 5.14      | 1.84  | 6.8      | 10          | 8             | 13     | 12                      |
| 1920..... | 36.4        | 69      | 7      | 5.10          | 6.63      | 2.86  | 1.0      | 11          | 8             | 12     | 8                       |
| 1921..... | 32.3        | 64      | -4     | 2.37          | 3.23      | 1.62  | 6.2      | 13          | 8             | 10     | 9                       |
| 1922..... | 32.5        | 65      | -8     | 3.86          | 5.26      | 3.09  | 7.3      | 9           | 9             | 13     | 12                      |
| 1923..... | 40.8        | 69      | 9      | 4.14          | 5.14      | 2.44  | 2.6      | 13          | 7             | 11     | 12                      |
| 1924..... | 32.8        | 68      | -4     | 2.58          | 3.42      | 1.85  | 0.4      | 10          | 8             | 13     | 8                       |
| 1925..... | 34.0        | 61      | -5     | 2.84          | 4.68      | 1.08  | 0.6      | 13          | 7             | 11     | 10                      |
| 1926..... | 28.4        | 52      | -7     | 3.44          | 4.74      | 1.67  | 8.2      | 11          | 7             | 13     | 11                      |



## Climatological Data for December, 1926

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Observers                                                                          |                              |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------------------------------------------------------------|------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy | Cloudy |                                                                                    | Prevailing direction of wind |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                                                                                    |                              |
| Belvidere.....                       | Warren.....     | 289             | 35                      | 26.2                         | -4.4                      | 49      | 14   | -3     | 7    | 32                   | 2.98                     | -1.09                     | 0.90                 | 16.3                      | 9                            | 18    | 5          | 8      | Miss C. S. Slixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris. |                              |
| Charlotteburg...†                    | Passaic.....    | 719             | 34                      | 26.0                         | -3.8                      | 48      | 25   | -1     | 7    | 34                   | 2.86                     | -1.47                     | 0.86                 | 10.0                      | 10                           | 3     | 12         | 16     |                                                                                    |                              |
| Culvers Lake...†                     | Sussex.....     | 848             | 25                      |                              |                           |         |      |        |      |                      | 2.37                     | -1.29                     | 0.81                 | 19.9                      | 11                           | 8     | 10         | 13     |                                                                                    |                              |
| Dover.....                           | Morris.....     | 600             | 42                      | 24.9 <sup>a</sup>            | -5.0                      | 46      | 14   | 0      | 19   | 28                   | 3.47                     | -0.83                     | 1.11                 | 12.6                      | 13                           | 4     | 16         | 11     |                                                                                    |                              |
| Layton.....                          | Sussex.....     | 480             | 25                      | 23.2                         | -4.2                      | 46      | 14   | -6     | 19   | 35                   | 1.67                     | -2.27                     | 0.66                 | 20.5                      | 13                           | 12    | 3          | 16     | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt               |                              |
| Newton.....                          | Sussex.....     | 769             | 42                      | 25.4                         | -4.7                      | 46      | 14   | 0      | 19   | 25                   | 3.07                     | -0.64                     | 0.94                 | 15.7                      | 13                           | 11    | 5          | 15     |                                                                                    |                              |
| Phillipsburg.....                    | Warren.....     | 363             | 43                      | 28.2 <sup>a</sup>            | -3.1                      | 46      | 25   | 9      | 18†  | 31                   | 3.36                     | -0.38                     | 1.12                 | 10.0                      | 9                            | 13    | 8          | 10     |                                                                                    |                              |
| Sussex.....                          | Sussex.....     | 442             | 31                      | 24.6 <sup>c</sup>            | -5.3                      | 43      | 12†  | -6     | 7    | 32                   | \$                       |                           |                      |                           | 9                            | 5     | 17         | nw.    |                                                                                    |                              |
| Means and extremes...                |                 |                 |                         | 25.5                         | -4.4                      | 49      | 14   | -6     | 7†   | 35                   | 2.83                     | -1.14                     | 1.12                 | 15.0                      | 11                           | 10    | 8          | 13     | nw.                                                                                |                              |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                                                                                    |                              |
| Bergen Point...††                    | Hudson.....     | 37              | 29                      | 29.6                         | -3.4                      | 48      | 14   | 6      | 19   | 23                   | 3.88                     | -0.50                     | 1.30                 | 9.7                       | 10                           | 4     | 13         | 14     | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com   |                              |
| Boonton.....                         | Morris.....     | 400             | 336                     | 24.8                         | -5.7                      | 48      | 14   | -3     | 7    | 39                   | 2.70                     | -1.28                     | 0.99                 |                           | 10                           | 17    | 0          | 14     |                                                                                    | nw.                          |
| Chatham.....                         | Morris.....     | 185             | 22                      |                              |                           |         |      |        |      |                      | 4.74                     | +0.57                     | 1.27                 | 8.2                       | 13                           | 14    | 6          | 11     |                                                                                    | nw.                          |
| Elizabeth.....                       | Union.....      | 45              | 47                      | 28.8 <sup>b</sup>            | -4.5                      | 50      | 14   | -1     | 7    | 32                   | 3.30                     | -0.66                     | 1.31                 | 8.4                       | 8                            | 16    | 3          | 12     |                                                                                    | nw.                          |
| Flemington.....                      | Hunterdon.....  | 140             | 340                     | 28.2                         | -3.8                      | 49      | 14   | -3     | 7    | 35                   | 3.16                     | -0.60                     | 1.20                 | 8.5                       | 10                           | 12    | 8          | 11     | nw.                                                                                |                              |
| Highwood...†                         | Bergen.....     | 90              | 38                      | 26.0                         | -5.8                      | 46      | 14   | -6     | 7    | 33                   | 3.90                     | -0.31                     | 1.51                 | 10.8                      | 10                           | 10    | 8          | 13     | nw.                                                                                |                              |
| Jersey City.....                     | Hudson.....     | 10              | 28                      | 29.6                         | -4.5                      | 49      | 14   | 7      | 18   | 27                   | 3.85                     | -0.08                     | 1.50                 | 11.1                      | 14                           | 11    | 9          | 11     | nw.                                                                                |                              |
| Lambertville.....                    | Hunterdon.....  | 370             | 39                      | 26.7                         | -6.9                      | 45      | 22   | 5      | 19   | 21                   | 3.43                     | -0.44                     | 1.33                 | 8.7                       | 13                           | 17    | 5          | 9      | nw.                                                                                |                              |
| Little Falls.....                    | Passaic.....    | 180             | 323                     | 26.2                         | -5.3                      | 48      | 14   | -3     | 7    | 42                   | 3.52                     | -0.57                     | 1.24                 | 11.1                      | 14                           | 15    | 4          | 12     | nw.                                                                                |                              |
| New Brunswick.....                   | Middlesex.....  | 110             | 73                      | 28.3                         | -4.9                      | 48      | 14   | 3      | 7    | 25                   | 3.00                     | -0.67                     | 1.40                 | 7.3                       | 10                           | 10    | 10         | 11     | nw.                                                                                |                              |
| New Milford...†                      | Bergen.....     | 9               | 8                       |                              |                           |         |      |        |      |                      | \$                       |                           | 1.40                 |                           | 9                            |       |            |        | nw.                                                                                |                              |
| Paterson.....                        | Passaic.....    | 80              | 55                      | 29.2                         | -3.9                      | 50      | 14   | 7      | 7    | 22                   | 3.49                     | -0.57                     | 1.21                 | 6.5                       | 10                           | 12    | 4          | 15     | nw.                                                                                |                              |
| Plainfield.....                      | Union.....      | 120             | 38                      | 27.2                         | -5.5                      | 49      | 14   | -4     | 7    | 34                   | 3.42                     | -0.64                     | 1.21                 | 12.4                      | 14                           | 9     | 10         | 12     | nw.                                                                                |                              |
| Ridgefield.....                      | Bergen.....     | 80              | 9                       | 26.4                         |                           | 48      | 14   | 4      | 7    | 29                   | 3.38                     |                           | 1.20                 | 12.2                      | 11                           | 11    | 8          | 12     | nw.                                                                                |                              |
| Somerville.....                      | Somerset.....   | 70              | 43                      | 28.1                         | -4.1                      | 50      | 14   | -7     | 7    | 39                   | 3.33                     | -0.52                     | 1.33                 | 6.0                       | 7                            | 11    | 11         | 9      | w.                                                                                 |                              |
| South Orange.....                    | Essex.....      | 200             | 56                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                                                                                    |                              |
| Verona.....                          | Essex.....      | 490             |                         | 26.3                         |                           | 46      | 14   | 5      | 7†   | 24                   | 3.95                     |                           | 1.42                 | 10.3                      | 14                           | 7     | 7          | 17     | w.                                                                                 |                              |
| Woodcliff Lake...†                   | Bergen.....     | 100             | 8                       |                              |                           |         |      |        |      |                      | \$                       |                           | 1.25                 |                           | 8                            |       |            |        |                                                                                    |                              |
| New York, N. Y.....                  |                 | 365             | 56                      | 29.2                         | -5.8                      | 50      | 14   | 7      | 18   | 28                   | 3.72                     | +0.27                     | 1.47                 | 10.0                      | 14                           | 7     | 12         | 12     | nw.                                                                                |                              |
| Means and extremes...                |                 |                 |                         | 27.5                         | -4.9                      | 50      | 14   | -7     | 7    | 42                   | 3.54                     | -0.48                     | 1.51                 | 9.4                       | 11                           | 12    | 7          | 12     | nw.                                                                                |                              |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                                                                                    |                              |
| Belleplain.....                      | Cape May.....   | 30              | 32                      | 30.6                         | -4.5                      | 50      | 13†  | 0      | 19   | 33                   | 3.40                     | -0.55                     | 1.45                 | 0.5                       | 12                           | 12    | 6          | 13     | nw.                                                                                |                              |
| Bridgeton.....                       | Cumberland..... | 90              | 45                      | 31.6                         | -4.6                      | 48      | 2†   | 5      | 19   | 26                   | 3.59                     | -0.23                     | 1.44                 | 1.0                       | 7                            | 11    | 2          | 18     | nw.                                                                                |                              |
| Burlington.....                      | Burlington..... | 12              | 340                     | 30.4                         | -3.4                      | 47      | 14   | 8      | 19   | 21                   | 2.78                     | -1.54                     | 1.21                 | 4.8                       | 7                            | 11    | 5          | 15     | nw.                                                                                |                              |
| Clayton.....                         | Gloucester..... | 130             | 30                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                                                                                    |                              |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                                                                                    |                              |
| Hightstown.....                      | Mercer.....     | 120             | 32                      | 28.9 <sup>b</sup>            | -3.7                      | 47      |      |        | 7    | 35                   | 3.35                     | -0.34                     | 1.37                 | 8.5                       | 13                           | 9     | 9          | 13     | nw.                                                                                |                              |
| Imlaystown.....                      | Monmouth.....   | 115             | 36                      | 29.1†                        | -3.8                      | 45      | 1    | -5     | 4    | 7                    | 2.84                     | -0.83                     | 1.20                 |                           | 10                           | 11    | 7          | 13     | nw.                                                                                |                              |
| Indian Mills...†                     | Burlington..... | 76              | 37                      | 30.4                         | -3.4                      | 49      | 26   | -2     | 7    | 35                   | 4.16                     | -0.24                     | 1.88                 | 5.5                       | 10                           | 9     | 9          | 13     | nw.                                                                                |                              |
| Lakewood.....                        | Ocean.....      | 54              | 22                      | 29.6                         | -3.9                      | 49      | 28   | 3      | 7    | 30                   | 3.75                     | -0.89                     | 1.45                 | 5.5                       | 10                           | 12    | 3          | 16     | nw.                                                                                |                              |
| Moorestown.....                      | Burlington..... | 75              | 63                      | 29.9                         | -3.6                      | 50      | 14   | 1      | 7    | 32                   | 3.12                     | -0.57                     | 1.29                 |                           | 7                            | 13    | 8          | 10     | nw.                                                                                |                              |
| Northfield...†                       | Atlantic.....   | 25              | 19                      |                              |                           |         |      |        |      |                      | 3.79                     | -0.33                     | 1.71                 | 0.2                       | 11                           |       |            |        |                                                                                    |                              |
| Pleasantville...†                    | Atlantic.....   | 26              | 28                      | 31.0                         |                           | 50      | 1†   | 9      | 7†   | 34                   | 4.32                     | +0.08                     | 1.87                 |                           | 13                           | 17    | 4          | 10     | nw.                                                                                |                              |
| Riverton.....                        | Burlington..... |                 |                         | 28.4                         |                           | 48      | 1    | 4      | 7    | 25                   | 3.35                     |                           | 1.17                 | 5.0                       | 10                           | 13    | 3          | 15     |                                                                                    |                              |
| Runyon...†                           | Middlesex.....  | 18              | 2                       | 27.2 <sup>a</sup>            |                           | 52      | 1    | -6     | 7    | 37                   | 3.30                     |                           | 1.22                 |                           | 7                            | 13    | 10         | 8      | w.                                                                                 |                              |
| Trenton.....                         | Mercer.....     | 190             | 54                      | 28.8                         | -5.6                      | 47      | 1    | 9      | 19   | 26                   | 3.00                     | -0.16                     | 1.09                 | 7.6                       | 12                           | 8     | 10         | 13     | nw.                                                                                |                              |
| Tuckerton.....                       | Ocean.....      | 23              | 33                      |                              |                           | 49      | 1†   | 5      | 19   | 36                   | 4.45                     | -0.06                     | 1.90                 |                           | 11                           | 15    | 10         | 6      | n.                                                                                 |                              |
| Vineland.....                        | Cumberland..... | 109             | 57                      | 31.9 <sup>a</sup>            | -2.6                      | 49      | 13†  | 6      | 19   | 25                   | 4.62                     | +0.80                     |                      | T.                        | 6                            | 11    | 7          | 13     | nw.                                                                                |                              |
| Philadelphia, Pa.....                |                 | 117             | 55                      | 32.3                         | -4.0                      | 50      | 1    | 12     | 18   | 23                   | 3.54                     | +0.50                     | 1.30                 | 4.4                       | 10                           | 8     | 8          | 15     | n.                                                                                 |                              |
| Means and extremes...                |                 |                 |                         | 29.8                         | -3.9                      | 52      | 1    | -6     | 7    | 37                   | 3.55                     | -0.37                     | 1.90                 | 3.9                       | 10                           | 12    | 7          | 12     | nw.                                                                                |                              |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                                                                                    |                              |
| Asbury Park.....                     | Monmouth.....   | 22              | 37                      | 31.0                         | -4.0                      | 52      | 29   | 6      | 19   | 26                   | 3.34                     | -0.51                     | 1.50                 | 4.0                       | 10                           | 13    | 11         | 7      | nw.                                                                                |                              |
| Atlantic City.....                   | Atlantic.....   | 16              | 53                      | 33.0                         | -3.4                      | 51      | 28   | 9      | 19   | 26                   | 3.71                     | -0.03                     | 1.50                 | 0.6                       | 15                           | 10    | 7          | 14     | nw.                                                                                |                              |
| Cape May City.....                   | Cape May.....   | 17              | 42                      | 33.4                         | -4.6                      | 50      | 8    | 11     | 18   | 27                   | 3.33                     | +0.15                     | 1.75                 | 0.2                       | 13                           |       |            |        | n.                                                                                 |                              |
| Sandy Hook.....                      | Monmouth.....   | 22              | 28                      | 29.7                         | -4.7                      | 45      | 14   | 10     | 18   | 24                   | 3.58                     | -0.33                     | 1.39                 | 9.0                       | 13                           | 7     | 7          | 17     | nw.                                                                                |                              |
| Means and extremes...                |                 |                 |                         | 31.8                         | -4.2                      | 52      | 29   | 6      | 19   | 27                   | 3.64                     | -0.19                     | 1.75                 | 3.4                       | 13                           | 10    | 8          | 13     | nw.                                                                                |                              |
| For the State.....                   |                 |                 |                         | 28.4                         | -4.4                      | 52      | 1†   | -7     | 7    | 42                   | 3.44                     | -0.54                     | 1.90                 | 8.2                       | 11                           | 11    | 7          | 13     | nw.                                                                                |                              |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01

Inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for December, 1926

| Stations                                   | Drainage Basin  | Day of month |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      | Total |      |
|--------------------------------------------|-----------------|--------------|----|-----|------|--------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|-------|------|
|                                            |                 | 1            | 2  | 3   | 4    | 5      | 6    | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17 | 18 | 19 | 20  | 21  | 22  | 23  | 24  | 25  | 26   | 27   | 28   | 29   | 30   | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      |       |      |
| Belvidere.....                             | Delaware.....   | T.           |    |     |      | .71    |      |     | .01 |     | .34 | T.  |     | .06 |     | .05 |     |    |    |    | T.  |     |     |     | .09 |     |      |      | .67  | .15  |      |      | 2.98  |      |
| Charlotteburg.....                         | Passaic.....    |              |    | .07 |      | .50    |      |     |     |     | .27 |     |     |     | .10 |     | .07 |    |    |    |     | .05 |     |     | .15 |     | .74  |      | .86  |      | .05  |      | 2.86  |      |
| Culvers Lake.....                          | Delaware.....   | .01          |    |     | .01  | .40    | .18  |     | .02 |     | .23 | T.  |     | T.  |     | T.  |     |    |    |    |     | .06 |     |     | .02 |     | .81  |      | .55  | .08  | T.   |      | 2.37  |      |
| Dover.....                                 | Passaic.....    | .02          |    | .03 |      | .70    |      |     | .01 |     | .27 |     |     | .08 |     | .10 |     | T. |    |    |     | .05 |     |     | .03 | *   | 1.11 |      | 1.01 |      |      | .06  | 3.47  |      |
| Layton.....                                | Delaware.....   | .01          |    | *   | .01  | *      | .66  |     |     |     | .02 |     |     | .01 |     | T   | T   |    |    |    | .01 | T   |     |     | .05 | .02 | .57  |      | .25  | .01  |      | .05  | 1.67  |      |
| Newton.....                                | Delaware.....   | .03          | T  | T   | .02  | .65    | .14  |     | T.  |     | .33 | .02 |     | .04 | T   | .03 | T   |    |    |    | .04 |     |     | .10 | T.  | .94 |      | .42  | .31  | T.   |      | 3.07 |       |      |
| Phillipsburg.....                          | do.....         |              |    | .04 |      | *      |      |     |     | .12 | T.  |     |     |     |     | .04 | T.  |    |    |    |     | T   | T   |     | .08 | .34 | 1.01 |      | .66  |      |      | .07  | 3.36  |      |
| Sussex.....                                | Hudson.....     |              |    |     | .50  | \$     | .57  |     | .04 |     | .26 | T.  |     | .04 |     | .05 |     |    |    |    |     | .13 |     |     | .13 | .11 | \$   |      | \$   | \$   |      | \$   | \$    |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      |       |      |
| Bergen Point**.....                        | Coast.....      |              | T. |     |      | .94    |      | T.  |     | T.  | .14 | .03 |     | .01 | T.  | T.  |     |    |    |    |     | T.  |     |     | .06 | .23 | 1.07 |      | 1.30 | .03  |      | .07  | 3.88  |      |
| Boonton   .....                            | Passaic.....    |              |    |     | T.   |        | .30  |     |     |     | .18 | T.  | .03 |     | T.  | .07 |     | T. |    |    |     | .03 |     |     |     | .10 | .63  | .27  | .10  | .99  |      |      | 2.70  |      |
| Chatham   .....                            | do.....         | .74          |    |     | .02  |        | .79  |     |     | T.  | .04 | .08 | .10 |     | .01 | T.  | .11 |    |    |    |     | .02 |     |     | T.  | T.  |      |      | .38  | 1.10 |      |      | 4.74  |      |
| Elizabeth.....                             | Coast.....      |              |    |     | .10  | .31    |      |     | T.  | .11 | T.  | .05 |     |     |     | .05 |     |    |    |    |     | T.  |     |     | .07 |     | .65  |      | .96  |      |      |      | 3.30  |      |
| Flemington.....                            | Raritan.....    | T.           |    |     | T.   | .40    | .20  |     | T.  |     | .11 | .05 |     | .09 |     | T.  | T.  |    |    |    |     | T.  |     |     | .03 | .03 | 1.05 |      | 1.03 | .17  |      |      | 3.16  |      |
| Highwood.....                              | Hackensack..... | T.           |    | .02 |      | .80    | T.   |     | T.  |     | .11 | .07 |     | .02 |     | T.  | .05 | T. |    |    |     | T.  |     |     | .18 | .02 | 1.12 |      | 1.51 | T.   |      |      | 3.90  |      |
| Jersey City.....                           | Coast.....      | T.           |    | .07 |      | .72    |      |     | .01 |     | .10 | .06 |     | .03 | T   | .03 |     | T. |    |    |     | .02 | T.  |     |     | .05 | T.   | 1.15 |      | *    | 1.50 | .11  | 3.85  |      |
| Lambertville.....                          | Delaware.....   |              |    |     | .02  | .60    | .06  |     | .03 |     | .22 | .05 |     | .08 | .05 | .04 | T.  |    |    |    |     | T.  |     |     |     | T.  |      | .95  |      | 1.20 | .13  |      | 3.43  |      |
| Little Falls.   .....                      | Passaic.....    | .02          |    |     | .01  | .07    | .62  |     | T.  |     | .21 | T.  | .01 | .01 | .05 |     | .04 |    |    |    |     | .03 |     |     |     |     | .12  | 1.09 |      | .34  | .90  |      | 3.52  |      |
| New Brunswick.....                         | Raritan.....    |              |    |     | T.   | .37    | .08  |     | T.  |     | .13 | .03 |     | .03 | .02 | T.  |     |    |    |    |     | T.  |     |     |     | T.  | .03  | .91  |      | 1.27 | .13  | T.   | 3.00  |      |
| New Milford.**.....                        | Hackensack..... |              |    |     | .02  | \$     |      |     | \$  | .20 |     | .03 |     |     |     |     |     |    |    |    |     |     |     |     | .13 | .58 |      | .30  | 1.40 |      |      |      | \$    |      |
| Paterson.....                              | Passaic.....    | T.           | T. |     | .02  | .53    | .21  | T.  |     |     | .22 | .02 |     | .04 |     | .03 | .01 | T. |    |    |     | .03 |     |     | .12 |     | 1.05 |      |      | 1.10 | .11  |      | 3.49  |      |
| Plainfield.....                            | Raritan.....    | T            |    | .06 |      | .67    |      |     | .01 |     | .09 | .04 |     | .03 |     | .05 |     | T. |    |    |     | .01 |     |     |     | .05 | *    | 1.09 |      | *    | 1.21 |      | .11   | 3.42 |
| Ridgefield.....                            | Hackensack..... | T.           |    | .05 |      | .79    |      | T.  |     |     | .12 | .04 |     | .01 | .01 | .03 |     | T. |    |    |     | .03 |     |     | .10 | T.  | 1.00 |      | *    | 1.20 |      |      | 3.38  |      |
| Somerville.....                            | Raritan.....    |              |    |     | T.   | .50    |      |     |     |     | .18 | T.  |     | .06 |     | .03 | T.  |    |    |    |     |     |     |     | .09 |     | 1.17 |      | 1.19 | .14  | T.   |      | 3.33  |      |
| South Orange.....                          | Rahway.....     |              |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      |       |      |
| Verona**.....                              | Passaic.....    | T.           |    | .02 |      | .69    |      |     | T.  | .03 | .20 | .01 |     | .08 | T   | .06 |     |    |    |    |     |     |     |     | .11 | .30 | .89  |      | 1.40 | .02  |      | .10  | 3.95  |      |
| Woodcliff Lake**.....                      | Hackensack..... |              |    |     | .05  | \$ .07 |      |     |     | .22 |     |     |     | .03 |     |     |     |    |    |    |     |     |     |     | .04 | .92 |      |      | 1.25 |      | .12  |      | \$    |      |
| New York, N. Y.***.....                    | Coast.....      | T.           |    | .07 |      | .73    |      | .01 | T.  | .05 | .05 | .06 |     | .02 | T   | .03 |     | T. |    |    |     | .02 | T.  |     |     | .05 | .13  | .95  |      | 1.47 | T.   | .08  | 3.72  |      |
| <i>The Southern Interior.</i>              |                 |              |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |    |     | .04  | .62    | .05  |     |     |     | .02 |     | .21 |     |     | .05 |     |    |    |    | T.  | .24 | .03 |     | T.  | *   | .69  |      | 1.27 | .18  |      |      | 3.40  |      |
| Bridgeton.....                             | Coast.....      |              |    | T.  |      | .48    |      |     |     |     | .27 |     | .28 |     | .10 |     |     |    |    |    |     |     |     |     | *   |     |      | 1.02 |      | 1.33 | .11  |      | 3.59  |      |
| Burlington.....                            | Delaware.....   |              |    | T.  |      | .55    |      |     |     |     | .14 | .01 |     | T.  | .06 | .01 | T.  |    |    |    |     |     |     |     | T.  |     | .80  |      | 1.08 | .13  |      | 2.78 |       |      |
| Clayton.....                               | Delaware.....   |              |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      |       |      |
| Hammonton.....                             | Mullica.....    |              |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      |       |      |
| Hightstown.....                            | Raritan.....    |              |    | .03 | .60  |        |      | .03 | .10 |     | .05 |     | .03 | .05 | .10 |     |     |    |    |    |     | *   |     |     | T.  | .04 | .93  |      | *    | 1.37 |      |      | 3.35  |      |
| Imlaystown.....                            | Delaware.....   |              |    |     | .45  |        | .05  |     | .12 |     |     |     | *   |     | .13 |     |     |    |    |    |     | *   |     |     |     | .02 | .05  | .82  |      | 1.20 |      |      | 2.84  |      |
| Indian Mills.....                          | Mullica.....    |              |    |     | .75  |        | .05  |     | .28 | .05 |     | .07 | .14 | T.  | .15 |     |     |    |    |    | T.  | .09 |     |     |     |     | .70  |      | 1.88 |      |      |      | 4.16  |      |
| Lakewood.....                              | Metedeconk..... |              |    |     | T    |        | 1.00 | .05 |     | .13 | .11 |     | .05 | .05 | .03 | .03 |     |    |    |    | T.  | T.  |     |     | T.  | T.  | .85  |      | 1.35 | .10  |      | T.   | 3.75  |      |
| Moorestown.....                            | Delaware.....   | T.           |    |     | .60  |        |      | T   |     |     | .17 | .02 |     | .02 |     | .02 |     |    |    |    |     |     |     |     | T.  | .02 | .90  |      | 1.20 | .09  |      |      | 3.12  |      |
| Northfield.....                            | Coast.....      |              |    |     | T.   | .72    |      | T.  |     | .20 | .04 |     | .17 | .01 | T   | .02 |     |    |    |    |     |     |     | .01 | .13 |     |      | .78  |      | 1.51 | .20  |      | 3.79  |      |
| Pleasantville   .....                      | Coast.....      | .06          |    | .02 | T.   | .73    |      | .01 |     | .26 | T.  | .01 | .16 | .12 |     | .03 |     |    |    |    |     |     |     | .15 |     |     | .01  | .89  |      | .07  | 1.80 |      | 4.32  |      |
| Riverton   .....                           | Delaware.....   | T.           |    |     |      | .85    |      | T.  |     | .15 | T.  | .03 | .05 | .06 | T.  | .02 | T.  |    |    |    |     |     |     |     |     |     | .01  | 1.01 | T.   | .38  | .79  |      | 3.35  |      |
| Runyon.....                                | Coast.....      |              |    |     | .75  |        |      |     | .17 | .06 |     | .07 | .02 |     |     |     |     |    |    |    |     |     |     |     |     | .04 | .06  | 1.00 |      | 1.22 |      |      | 3.30  |      |
| Trenton**.....                             | Delaware.....   | .02          |    |     | .57  |        | .04  | .14 | T.  | .02 |     | .07 | T.  | .02 |     |     |     |    |    |    |     | T.  | T.  |     |     | .07 | .25  | .64  |      | 1.09 | T.   |      | .07   | 3.00 |
| Tuckerton.....                             | Coast.....      |              |    |     | .65  | .10    |      |     | .25 | .10 |     | .20 | .05 |     | *   |     | T.  |    |    |    |     | *   |     |     |     | *   | 1.20 |      | 1.60 | .30  |      |      | 4.45  |      |
| Vineland.....                              | Maurice.....    |              |    |     | 1.00 |        |      |     | *   |     |     |     |     | *   |     | T.  |     | T. |    |    |     | *   |     |     |     |     | 2.25 |      | 1.37 |      |      |      | 4.62  |      |
| Phila., Pa.***.....                        | Delaware.....   | T            |    | T.  |      | .76    |      | .01 | .10 | .05 | T   | T.  | .08 | T.  | .01 |     |     |    |    |    |     | T.  | T.  |     |     | T   | .40  | .74  |      | 1.30 |      | .09  | 3.54  |      |
| <i>The Sea Coast.</i>                      |                 |              |    |     |      |        |      |     |     |     |     |     |     |     |     |     |     |    |    |    |     |     |     |     |     |     |      |      |      |      |      |      |       |      |
| Asbury Park.....                           | Coast.....      |              |    | .05 |      | .50    |      |     |     | .10 | .05 |     | .20 |     | .10 |     |     |    |    |    |     |     |     |     |     | .05 | .04  | .75  |      | 1.50 |      | T.   | 3.34  |      |
| Atlantic City***.....                      | do.....         |              |    | .03 |      | .66    |      | .01 | .09 | .10 | .05 |     | .18 | T.  | .04 |     |     |    |    |    |     | .01 | .13 | .01 |     | T.  | .27  | .63  |      | 1.49 | .01  |      | 3.71  |      |
| Cape May City.....                         | do.....         |              |    |     | .75  |        |      |     | .02 | .23 | .05 |     | .32 | .11 | .02 | T.  | T.  |    |    |    |     | .04 | .21 | .15 |     | .13 | T.   | .75  | .15  |      |      | 3.93 |       |      |
| Sandy Hook***.....                         | do.....         | T            |    | .01 |      | .78    |      | .01 | .03 | .17 | .05 |     | .05 |     | .06 |     | T.  |    |    |    |     | T.  | T.  |     |     | .04 | .20  | .69  |      | 1.39 | T.   | .10  | 3.58  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           | Moisture                               |                                           |                                         | Sun-<br>shine |       |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|-------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |       |
|                       |              |         |      |        |      |                 | Miles per hour | Direction |                                        |                                           |                                         | Date          |       |
| Atlantic City.....    | 30.11        | 30.61   | 18   | 29.52  | 26   | 16.6            | 49             | nw.       | 2                                      | 82                                        | 72                                      | 73            | 49    |
| New York, N. Y.....   | 30.10        | 30.60   | 5    | 29.55  | 11   | 17.3            | 68             | nw.       | 2                                      | 72                                        | 63                                      | 65            | 58    |
| Philadelphia, Pa..... | 30.13        | 30.66   | 18   | 29.59  | 29   | 10.2            | 38             | ne.       | 4                                      | 77                                        | 75                                      | 79            | 45    |
| Ridgefield.....       | 30.10        | 30.61   | 5    | 29.55  | 11   |                 |                |           |                                        |                                           |                                         |               |       |
| Sandy Hook.....       | 30.10        | 30.62   | 18   | 29.55  | 11   | 17.1            | 60             | nw.       | 2                                      | 74                                        | 70                                      | 71            | 45    |
| Trenton.....          | 30.11        | 30.62   | 19   | 29.56  | 11   | 9.9             | 36             | nw.       | 16                                     | 79                                        | 68                                      | 76            | 42    |
| Verona.....           | 30.10        | 30.61   | 5    | 29.53  | 11   | 6.8             | 31             | nw.       | 2                                      | 81*                                       | 67                                      | 72            | ..... |

\* 7 a. m.



## Daily Temperatures for December, 1926

| Stations                             |         | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |      |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| Belvidere.....                       | Maximum | 45    | 42    | 30    | 36    | 17    | 23    | 29    | 35    | 35    | 38    | 34    | 39    | 36    | 49    | 37    | 22    | 32    | 30    | 25    | 31    | 43    | 41    | 36    | 36    | 42    | 35    | 35    | 36    | 38    | 34    | 37    | 34.8  |      |
|                                      | Minimum | 32    | 18    | 13    | 16    | 8     | 9     | -3    | 22    | 14    | 24    | 22    | 22    | 23    | 32    | 18    | 11    | 11    | 4     | 3     | 12    | 29    | 29    | 16    | 14    | 32    | 25    | 11    | 16    | 31    | 20    | 16    | 17.7  |      |
| Charlotteburg.....                   | Maximum | 43    | 39    | 30    | 35    | 30    | 18    | 33    | 40    | 37    | 34    | 33    | 40    | 41    | 44    | 40    | 33    | 28    | 27    | 31    | 42    | 39    | 36    | 32    | 48    | 40    | 38    | 35    | 37    | 33    | 36    | 35.6  |       |      |
|                                      | Minimum | 30    | 15    | 8     | 22    | 5     | 9     | -1    | 20    | 16    | 22    | 9     | 20    | 19    | 35    | 19    | 9     | 8     | 1     | 9     | 9     | 28    | 29    | 12    | 5     | 30    | 28    | 15    | 7     | 32    | 20    | 15    | 16.3  |      |
| Dover.....                           | Maximum | 43    | 28    | 29    | 35    | 14    | 18    | 32    | 37    | 34    | 35    | 35    | 41    | 37    | 46    | ..... | 20    | 29    | ..... | 23    | 33    | 43    | 42    | 33    | 35    | 40    | 29    | 35    | 37    | 31    | 35    | 33.2  |       |      |
|                                      | Minimum | 28    | 18    | 10    | 9     | 6     | 10    | 4     | 23    | 17    | 21    | 15    | 24    | 27    | 26    | 19    | 11    | 10    | 4     | 5     | 11    | 32    | 24    | 14    | 12    | 31    | 17    | 14    | 14    | 27    | 19    | 17    | 16.6  |      |
| Layton.....                          | Maximum | 44    | 38    | 28    | 28    | 15    | 19    | 25    | 39    | 38    | 36    | 36    | 41    | 36    | 46    | 31    | 22    | 30    | 22    | 22    | 28    | 43    | 40    | 30    | 34    | 39    | 30    | 35    | 32    | 36    | 30    | 35    | 32.5  |      |
|                                      | Minimum | 32    | 15    | 9     | 15    | 5     | 12    | -5    | 18    | 10    | 22    | 20    | 18    | 18    | 31    | 10    | 8     | 1     | 1     | -6    | 6     | 23    | 28    | 10    | 5     | 30    | 20    | 0     | 8     | 28    | 17    | 19    | 13.8  |      |
| Newton.....                          | Maximum | 43    | 39    | 29    | 30    | 15    | 20    | 29    | 43    | 39    | 36    | 33    | 41    | 35    | 46    | 32    | 25    | 30    | 25    | 24    | 29    | 43    | 42    | 33    | 33    | 41    | 34    | 35    | 34    | 33    | 35    | 33.8  |       |      |
|                                      | Minimum | 30    | 17    | 10    | 13    | 5     | 1     | 4     | 21    | 18    | 20    | 20    | 22    | 27    | 30    | 18    | 9     | 13    | 1     | 0     | 10    | 28    | 30    | 14    | 13    | 31    | 20    | 11    | 16    | 31    | 22    | 18    | 16.9  |      |
| Phillipsburg.....                    | Maximum | 44    | 44    | 33    | 43    | 22    | 28    | 31    | 40    | 41    | 41    | 38    | 40    | 41    | 38    | 45    | 31    | 23    | 33    | 19    | 26    | 30    | 45    | 43    | 30    | 36    | 46    | ..... | 34    | 39    | 42    | 38    | 43    | 36.2 |
|                                      | Minimum | 33    | 17    | 15    | 12    | 11    | 13    | 12    | 26    | 18    | 27    | 25    | 25    | 30    | 30    | 21    | 14    | 15    | 9     | 9     | 19    | ..... | 28    | 19    | 18    | 32    | 20    | 16    | 21    | 27    | 22    | 20    | 20.1  |      |
| Sussex.....                          | Maximum | 42    | 41    | 32    | 34    | 26    | 33    | 26    | 36    | ..... | 38    | 34    | 35    | 43    | 35    | 26    | 29    | 28    | 23    | 29    | 43    | 42    | 35    | 33    | 39    | ..... | 37    | ..... | 38    | 35    | 36    | 34.3  |       |      |
|                                      | Minimum | 33    | 18    | 10    | 17    | 7     | 10    | -6    | 22    | 10    | ..... | 12    | 23    | 16    | 23    | 15    | 10    | 5     | 4     | 1     | 8     | 27    | 29    | 12    | 7     | 31    | ..... | 7     | 33    | 18    | 14    | 14.9  |       |      |
| The Red Sandstone Plain.             |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |
| Bergen Point.....                    | Maximum | 45    | 42    | 32    | 39    | 26    | 25    | 30    | 40    | 40    | 37    | 35    | 43    | 37    | 48    | 35    | 29    | 33    | 31    | 23    | 34    | 45    | 42    | 33    | 36    | 44    | 33    | 35    | 40    | 43    | 37    | 39    | 36.5  |      |
|                                      | Minimum | 37    | 22    | 16    | 18    | 11    | 16    | 11    | 26    | 24    | 29    | 25    | 28    | 30    | 34    | 25    | 16    | 18    | 9     | 6     | 19    | 33    | 33    | 20    | 25    | 33    | 25    | 19    | 24    | 20    | 24    | 25    | 22.6  |      |
| Boonton§§.....                       | Maximum | 44    | 31    | 36    | 38    | 21    | 21    | 33    | 40    | 33    | 38    | 36    | 44    | 40    | 48    | 29    | 23    | 31    | 19    | 24    | 42    | 44    | 42    | 37    | 40    | 42    | 30    | 37    | 38    | 39    | 33    | 36    | 35.1  |      |
|                                      | Minimum | 31    | 18    | 9     | 14    | 7     | 6     | -3    | 1     | 16    | 18    | 13    | 20    | 24    | 29    | 17    | 12    | 5     | 5     | 2     | 7     | 17    | 28    | 16    | 10    | 19    | 24    | 8     | 11    | 28    | 23    | 16    | 14.5  |      |
| Elizabeth.....                       | Maximum | 46    | 44    | 32    | 42    | 26    | 23    | 31    | 39    | 40    | 37    | 37    | 41    | 44    | 50    | 41    | 27    | 33    | 32    | 24    | 34    | 47    | 42    | 35    | ..... | 45    | ..... | 37    | 41    | 43    | 41    | 43    | 37.8  |      |
|                                      | Minimum | 35    | 21    | 13    | 11    | 11    | 14    | -1    | 24    | 19    | 28    | 18    | 30    | 24    | 34    | 23    | 15    | 12    | 8     | 5     | 14    | 31    | 24    | ..... | 18    | 34    | 28    | 23    | 19    | 20    | 24    | 19    | 19.9  |      |
| Flemington.....                      | Maximum | 47    | 43    | 31    | 38    | 25    | 23    | 32    | 38    | 38    | 40    | 36    | 45    | 38    | 49    | 39    | 27    | 35    | 30    | 29    | 34    | 46    | 42    | 35    | 36    | 42    | 34    | 34    | 35    | 40    | 36    | 35    | 36.5  |      |
|                                      | Minimum | 34    | 22    | 14    | 25    | 10    | 11    | -3    | 23    | 14    | 27    | 15    | 26    | 25    | 34    | 22    | 13    | 13    | 7     | 8     | 13    | 31    | 33    | 18    | 19    | 32    | 24    | 12    | 20    | 33    | 23    | 18    | 19.9  |      |
| Highwood.....                        | Maximum | 44    | 40    | 31    | 39    | 20    | 21    | 26    | 39    | 39    | 35    | 29    | 41    | 36    | 46    | 32    | 26    | 31    | 24    | 23    | 32    | 45    | 41    | 32    | 35    | 42    | 35    | 29    | 39    | 40    | 34    | 37    | 34.3  |      |
|                                      | Minimum | 31    | 19    | 11    | 15    | 9     | -6    | 25    | 14    | 24    | 14    | 22    | 26    | 31    | 15    | 14    | 12    | 6     | 10    | 15    | 30    | 28    | 18    | 15    | 33    | 22    | 8     | 15    | 22    | 23    | 22    | 17.8  |       |      |
| Jersey City.....                     | Maximum | 44    | 37    | 33    | 38    | 27    | 23    | 30    | 39    | 34    | 37    | 38    | 42    | 46    | 49    | 31    | 27    | 32    | 18    | 25    | 33    | 46    | 40    | 34    | 39    | 43    | 33    | 34    | 42    | 41    | 36    | 41    | 36.2  |      |
|                                      | Minimum | 37    | 20    | 15    | 11    | 10    | 13    | 11    | 27    | 24    | 30    | 28    | 29    | 36    | 31    | 24    | 16    | 19    | 7     | 9     | 18    | 31    | 32    | 21    | 25    | 33    | 25    | 19    | 30    | 35    | 24    | 24    | 23.0  |      |
| Lambertville.....                    | Maximum | 44    | 31    | 30    | 37    | 20    | 22    | 27    | 36    | 37    | 37    | 36    | 35    | 38    | 43    | 35    | 24    | 30    | 27    | 21    | 33    | 40    | 45    | 34    | 36    | 40    | 32    | 29    | 34    | 37    | 32    | 37    | 33.6  |      |
|                                      | Minimum | 31    | 20    | 12    | 18    | 9     | 12    | 6     | 20    | 18    | 27    | 21    | 20    | 27    | 35    | 22    | 12    | 13    | 6     | 5     | 15    | 30    | 32    | 21    | 19    | 31    | 24    | 17    | 31    | 21    | 21    | 19.9  |       |      |
| Little Falls§§.....                  | Maximum | 44    | 30    | 36    | 37    | 22    | 23    | 39    | 40    | 33    | 39    | 44    | 46    | 43    | 48    | 32    | 23    | 31    | 20    | 25    | 40    | 47    | 40    | 40    | 41    | ..... | 33    | 35    | 39    | 44    | 36    | 45    | 35.3  |      |
|                                      | Minimum | 30    | 20    | 12    | 18    | 9     | 9     | -3    | 10    | 16    | 25    | 14    | 21    | 26    | 32    | 19    | 14    | 10    | 7     | 2     | 12    | 20    | 29    | 17    | 19    | 21    | 23    | 11    | 16    | 31    | 22    | 19    | 17.1  |      |
| New Brunswick.....                   | Maximum | 46    | 44    | 31    | 38    | 23    | 22    | 28    | 36    | 39    | 35    | 39    | 44    | 40    | 46    | 30    | 23    | 34    | 23    | 34    | 46    | 41    | 35    | 36    | 43    | 36    | 35    | 35    | 40    | 34    | 38    | 35.9  |       |      |
|                                      | Minimum | 36    | 21    | 13    | 23    | 11    | 14    | 3     | 22    | 19    | 29    | 18    | 24    | 27    | 34    | 22    | 13    | 14    | 9     | 6     | 13    | 31    | 33    | 19    | 15    | 33    | 26    | 17    | 22    | 34    | 22    | 20    | 20.7  |      |
| Paterson.....                        | Maximum | 47    | 43    | 32    | 40    | 22    | 23    | 29    | 40    | 40    | 37    | 34    | 44    | 38    | 50    | 38    | 26    | 32    | 29    | 26    | 33    | 45    | 43    | 35    | 36    | 44    | 29    | 32    | 37    | 42    | 37    | 37    | 35.6  |      |
|                                      | Minimum | 35    | 22    | 15    | 21    | 11    | 16    | 7     | 25    | 22    | 28    | 23    | 25    | 32    | 37    | 24    | 16    | 17    | 8     | 10    | 17    | 33    | 33    | 21    | 20    | 25    | 27    | 18    | 22    | 35    | 27    | 22    | 22.4  |      |
| Plainfield.....                      | Maximum | 44    | 38    | 33    | 39    | 22    | 22    | 30    | 38    | 34    | 36    | 38    | 42    | ..... | 49    | 31    | 27    | 32    | 28    | 24    | 33    | 46    | 40    | 34    | 38    | 44    | 33    | 33    | 35    | 41    | 36    | 40    | 35.3  |      |
|                                      | Minimum | 38    | 19    | 11    | 16    | 10    | 15    | -4    | 24    | 12    | 20    | 18    | 24    | 24    | 31    | 21    | 13    | 15    | 7     | 7     | 11    | 28    | 32    | 21    | 15    | 33    | 25    | 12    | 17    | 35    | 24    | 17    | 19.1  |      |
| Ridgefield.....                      | Maximum | 44    | 29    | 33    | 39    | 19    | 22    | 31    | 38    | 32    | 36    | 33    | 43    | 36    | 48    | 28    | 22    | 32    | 20    | 24    | 32    | 45    | 41    | 34    | 38    | 43    | 32    | 32    | 41    | 41    | 35    | 38    | 34.2  |      |
|                                      | Minimum | 29    | 16    | 13    | 10    | 9     | 10    | 4     | 26    | 17    | 22    | 17    | 24    | 32    | 25    | 20    | 15    | 11    | 6     | 6     | 15    | 32    | 25    | 17    | 18    | 32    | 17    | 14    | 18    | 27    | 23    | 18.5  |       |      |
| Somerville.....                      | Maximum | 46    | 44    | 34    | 38    | 26    | 23    | 32    | 38    | 39    | 35    | 41    | 39    | 50    | 40    | 28    | 33    | 30    | 26    | 34    | 46    | 43    | 36    | 35    | 44    | 38    | 36    | 36    | 40    | 35    | 41    | 36.9  |       |      |
|                                      | Minimum | 36    | 22    | 13    | 25    | 11    | 14    | -7    | 24    | 9     | 28    | 15    | 26    | 22    | 35    | 21    | 14    | 14    | 9     | 6     | 11    | 27    | 27    | 19    | 14    | 33    | 27    | 12    | 19    | 33    | 22    | 18    | 19.3  |      |
| South Orange.....                    | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |      |
| Verona.....                          | Maximum | 42    | 34    | 30    | 36    | 18    | 20    | 29    | 38    | 29    | 40    | 33    | 40    | 38    | 46    | 31    | 20    | 29    | 17    | 22    | 32    | 43    | 39    | 32    | 35    | 41    | 32    | 33    | 36    | 38    | 32    | 37    | 33.0  |      |
|                                      | Minimum | 34    | 18    | 11    | 14    | 8     | 13    | 5     | 24    | 18    | 25    | 20    | 26    | 30    | 31    | 20    | 12    | 15    | 5     | 6     | 15    | 31    | 29    | 18    | 19    | 32    | 21    | 14    | 20    | 30    | 23    | 21    | 19.6  |      |
| New York, N. Y.....                  | Maximum | 44    | 32    | 33    | 39    | 27    | 23    | 30    | 40    | 34</  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |



# CLIMATOLOGICAL DATA.

NEW JERSEY SECTION,  
G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXI. ANNUAL SUMMARY, 1926. No. 13

## GENERAL SUMMARY.

The outstanding weather feature of the year was the persistent subnormal temperature, every month showing a deficiency in warmth except January and August. There have been but two colder years on record in New Jersey, viz. 1917 and 1904, and one year the same, 1888. The total deficiency in temperature for the year averaged 1.5°, and was not materially noticeable except that in spring and early summer crops were some two weeks or more late, but on toward harvest this delay was largely accounted for. The great vacation resorts along the shore experienced unfavorable seasons due to the cool and rainy weather. From March to June, inclusive, there was a persistent deficiency in rain, but thereafter there were monthly excesses, except in December. August was a very rainy month, and there was considerable flooding in various localities due to the heavy downpours; this condition prevailed also in early September. There were severe wind storms which caused locally total damage to insecure structures in July, October, and November and a tornado of typical formation occurred at Ridgefield in August, with moderate damage. February was one of the most snowy months of record, and there was considerable delay to traffic of all kinds, and highways were somewhat obstructed for brief intervals. Heavy rains in the Delaware river drainage area on November 16th, caused very high water on the 18th, but without dangerous conditions developing, and no very great damage resulted.

The yearly total precipitation for the State was again slightly subnormal, and in the past 25 years, there have been but ten wherein the yearly precipitation has equalled or exceeded normal.

The mean temperature for the year, 50.0°, was 1.5° below normal. The warmest month was July, 73.0°, and the coldest, December, 28.4°. The highest temperature was 105° at Phillipsburg on July 22d, and the lowest, 11° below zero at Layton on February 9th. The highest mean temperature was 53.6° at Cape May City and Vineland, and the lowest, 46.1° at Layton. The greatest annual range of temperature was 114° at Layton.

The average precipitation for the State was 44.41 inches, which was 1.83 inches below normal. The greatest monthly average was 6.58 inches in August, and the least, 2.05 inches in April. The greatest monthly amount of precipitation was 8.84 inches at Hightstown in August, and the least, 1.08 inches at Woodcliff Lake in May. The greatest annual precipitation was 55.66 inches at Chatham, and the least, 36.77 inches at Layton.

The average snowfall for the State was 32.2 inches, which was 3.4 inches above normal. The greatest annual snowfall was 57.5 inches at Layton, and the least, 6.4 inches at Cape May City.

The average number of days on which 0.01 inch or more precipitation occurred was 122, which was 8 more than normal. The average number of clear days was 157, which was 5 more than normal; partly cloudy, 95, which was 14 less than normal; cloudy, 113, which was 9 more than normal.

The prevailing wind direction was from the northwest; the highest velocity was 78 miles per hour from the northeast at Atlantic City on February 4th.

A hail storm on June 7th caused the loss of \$150,000 to truck, fruit and plant beds in portions of Cumberland County south of Bridgeton. Light hail, with no material damage fell on Feb-

ruary 14th and 25th; April 3d and 24th; May 15th and 19th; June 2d, 7th, 8th, 10th and 24th; July 18th; August 7th and night of 29-30th.

## COMPARATIVE ANNUAL DATA FOR THE STATE

| Year     | Temperature |         |        | Average precipitation | Year     | Temperature |         |        | Average precipitation |
|----------|-------------|---------|--------|-----------------------|----------|-------------|---------|--------|-----------------------|
|          | Mean        | Highest | Lowest |                       |          | Mean        | Highest | Lowest |                       |
| 1885.... | 50.5        | 100     | -2     | 37.87                 | 1906.... | 52.8        | 98      | -15    | 46.38                 |
| 1886.... | 50.2        | 98      | -10    | 46.54                 | 1907.... | 50.4        | 96      | -22    | 51.65                 |
| 1887.... | 51.1        | 102     | -6     | 47.66                 | 1908.... | 52.6        | 106     | -17    | 42.58                 |
| 1888.... | 50.0        | 99      | -12    | 52.20                 | 1909.... | 52.0        | 100     | -15    | 40.86                 |
| 1889.... | 52.8        | 95      | -3     | 53.33                 | 1910.... | 52.0        | 99      | -15    | 39.73                 |
| 1890.... | 53.2        | 101     | 0      | 49.34                 | 1911.... | 52.6        | 104     | -12    | 50.36                 |
| 1891.... | 53.2        | 102     | 1      | 47.98                 | 1912.... | 51.3        | 100     | -32    | 46.61                 |
| 1892.... | 51.4        | 105     | -6     | 42.04                 | 1913.... | 54.2        | 100     | -11    | 46.99                 |
| 1893.... | 50.8        | 103     | -21    | 47.90                 | 1914.... | 51.4        | 99      | -12    | 39.23                 |
| 1894.... | 53.0        | 106     | -11    | 47.37                 | 1915.... | 52.5        | 98      | -3     | 47.37                 |
| 1895.... | 51.7        | 103     | -12    | 37.29                 | 1916.... | 51.2        | 100     | -18    | 38.17                 |
| 1896.... | 51.7        | 105     | -15    | 42.51                 | 1917.... | 49.6        | 104     | -21    | 40.80                 |
| 1897.... | 52.0        | 102     | -6     | 51.72                 | 1918.... | 51.2        | 108     | -16    | 37.65                 |
| 1898.... | 53.2        | 107     | -15    | 52.35                 | 1919.... | 52.5        | 103     | -12    | 52.10                 |
| 1899.... | 52.1        | 103     | -21    | 45.84                 | 1920.... | 51.2        | 98      | -17    | 51.87                 |
| 1900.... | 53.8        | 104     | -9     | 42.71                 | 1921.... | 54.1        | 100     | -5     | 38.16                 |
| 1901.... | 51.4        | 107     | -8     | 51.80                 | 1922.... | 52.6        | 98      | -11    | 41.57                 |
| 1902.... | 51.8        | 100     | -11    | 59.44                 | 1923.... | 51.9        | 106     | -14    | 40.34                 |
| 1903.... | 51.7        | 100     | -16    | 56.25                 | 1924.... | 50.7        | 102     | -6     | 44.17                 |
| 1904.... | 49.3        | 100     | -34    | 43.78                 | 1925.... | 52.1        | 103     | -20    | 42.15                 |
| 1905.... | 51.3        | 102     | -18    | 42.06                 | 1926.... | 50.0        | 105     | -11    | 44.41                 |

## MONTHLY STATE DATA FOR 1926

| Month          | Temperature |                       |         |        | Precipitation |                       |          |       |      |                       |
|----------------|-------------|-----------------------|---------|--------|---------------|-----------------------|----------|-------|------|-----------------------|
|                | Mean        | Departure from normal | Highest | Lowest | Average       | Departure from normal | Greatest | Least | Snow | Departure from normal |
| January.....   | 30.8        | +0.6                  | 63      | -9     | 2.61          | -1.04                 | 4.04     | 1.63  | 2.4  | -5.0                  |
| February.....  | 29.4        | -0.2                  | 57      | -11    | 4.54          | +0.84                 | 6.30     | 2.86  | 21.2 | +14.6                 |
| March.....     | 35.1        | -3.5                  | 79      | 0      | 2.25          | -1.67                 | 3.15     | 1.82  | 0.4  | -5.3                  |
| April.....     | 46.4        | -3.0                  | 87      | 14     | 2.05          | -1.58                 | 2.97     | 1.39  | T.   | -1.5                  |
| May.....       | 59.1        | -1.2                  | 90      | 26     | 2.58          | -1.09                 | 4.52     | 1.08  | 0.0  | 0.0                   |
| June.....      | 69.4        | -3.6                  | 97      | 31     | 2.60          | -1.10                 | 4.73     | 1.29  | 0.0  | 0.0                   |
| July.....      | 73.0        | -0.6                  | 105     | 40     | 5.46          | +0.82                 | 8.51     | 1.29  | 0.0  | 0.0                   |
| August.....    | 72.8        | +0.8                  | 101     | 38     | 6.58          | +1.76                 | 8.84     | 3.74  | 0.0  | 0.0                   |
| September..... | 64.5        | -0.9                  | 93      | 32     | 4.18          | +0.52                 | 7.09     | 1.53  | 0.0  | 0.0                   |
| October.....   | 53.1        | -1.8                  | 90      | 17     | 4.08          | +0.32                 | 6.03     | 1.79  | 0.0  | 0.0                   |
| November.....  | 42.5        | -0.4                  | 76      | 8      | 4.04          | +0.93                 | 7.19     | 2.44  | T.   | -1.2                  |
| December.....  | 28.4        | -4.4                  | 52      | -7     | 3.44          | -0.54                 | 4.74     | 1.67  | 8.2  | +1.8                  |
| Year.....      | 50.0        | -1.5                  | 105     | -11    | 44.41         | -1.83                 | 8.84     | 1.08  | 32.2 | +3.4                  |

## KILLING FROSTS

| Stations                                   | Last in spring | First in autumn | Stations                     | Last in spring | First in autumn |
|--------------------------------------------|----------------|-----------------|------------------------------|----------------|-----------------|
| <i>The Highlands and Kittatinny Valley</i> |                |                 | Verona.....                  | Apr. 27        | Oct. 22         |
| Belydère.....                              | May 5          | Oct. 16         | <i>The Southern Interior</i> |                |                 |
| Charlotteburg.....                         | June 21        | do. 8           | Belleplain ..                | May 29         | Oct. 9          |
| Culvers Lake.....                          | May 5          | do. 8           | Bridgeton.....               | Apr. 20        | do. 22          |
| Dover.....                                 | do. 5          | do. 16          | Burlington.....              | do. 27         | do. 22          |
| Layton.....                                | June 20        | do. 10          | Clayton.....                 | do. 27         | do. 22          |
| Newton.....                                | May 5          | do. 16          | Hightstown.....              | do. 27         | Oct. 10         |
| Phillipsburg.....                          | Apr. 20        | do. 16          | Imlaystown.....              | do. 27         | do. 12          |
| Sussex.....                                | May 13         | do. 12          | Indian Mills.....            | do. 27         | do. 22          |
| <i>The Red Sandstone Plain</i>             |                |                 | Lakewood.....                | May 6          | do. 22          |
| Bergen Point.....                          | Apr. 20        | Oct. 27         | Moorestown.....              | Apr. 27        | do. 22          |
| Boonton.....                               | May 13         | do. 8           | Northfield.....              | do. 20         | do. 22          |
| Chatham.....                               | do. 5          | do. 10          | Pleasantville.....           | May 6          | do. 9           |
| Elizabeth.....                             | Apr. 27        | do. 22          | Riverton.....                | Apr. 27        | do. 10          |
| Flemington.....                            | do. 27         | do. 22          | Runyon.....                  | May 25         | do. 8           |
| Highwood.....                              | May 5          | do. 10          | Trenton.....                 | Apr. 20        | do. 22          |
| Jersey City.....                           | Apr. 20        | do. 27          | Tuckerton.....               | do. 27         | do. 22          |
| Lambertville.....                          | do. 27         | do. 22          | Vineland.....                | do. 20         | do. 22          |
| Little Falls.....                          | do. 27         | do. 10          | <i>The Sea Coast</i>         |                |                 |
| New Brunswick.....                         | do. 27         | do. 22          | Asbury Park.....             | May 6          | Nov. 3          |
| Paterson.....                              | do. 20         | do. 8           | Atlantic City.....           | Apr. 20        | do. 4           |
| Plainfield.....                            | do. 27         | do. 16          | Cape May City.....           | do. 20         | do. 4           |
| Ridgefield.....                            | do. 27         | do. 22          | Sandy Hook.....              | do. 20         | do. 4           |
| Somerville.....                            | May 5          | do. 8           |                              |                |                 |
| South Orange.....                          | Apr. 20        | do. 26          |                              |                |                 |



## Climatological Data for the Year 1926

| STATION                              | Counties        | Elevation, feet | Temperature (degrees Fahrenheit) |             |         |          |        |         | Precipitation (inches)  |                    |                  |       |               |       | Number days with .01 or more | Sky                       |                   |                           | Prevailing direction of wind |                    |
|--------------------------------------|-----------------|-----------------|----------------------------------|-------------|---------|----------|--------|---------|-------------------------|--------------------|------------------|-------|---------------|-------|------------------------------|---------------------------|-------------------|---------------------------|------------------------------|--------------------|
|                                      |                 |                 | Length of record, years          | Annual mean | Highest | Date     | Lowest | Date    | Length of record, years | Total for the year | Greatest monthly | Month | Least monthly | Month |                              | Total snowfall (unmelted) | Number clear days | Number partly cloudy days |                              | Number cloudy days |
| The Highlands and Kittatinny Valley. |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belvidere.....                       | Warren.....     | 289             | 35                               | 49.4        | 100     | July 22  | -3     | Dec. 7  | 35                      | 43.79              | 5.60             | Oct.  | 1.82          | May   | 45.0                         | 121                       | .....             | .....                     | .....                        | .....              |
| Charlotteburg.....                   | Passaic.....    | 719             | 34                               | 46.4        | 97      | do. 21†  | -9     | Feb. 9  | 34                      | 46.57              | 6.13             | Feb.  | 1.77          | do.   | 51.0                         | 111                       | 74                | 71                        | 220                          | w.                 |
| Culvers Lake.....                    | Sussex.....     | 848             | .....                            | .....       | .....   | .....    | -9     | do. 9   | 25                      | 39.25              | 6.68             | Aug.  | 1.44          | Apr.  | 52.9                         | 135                       | 173               | 79                        | 113                          | e.                 |
| Dover.....                           | Morris.....     | 600             | 42                               | 47.5        | 98      | July 22  | -1     | do. 9   | 42                      | 49.95              | 7.32             | July  | 1.87          | do.   | 39.9                         | 123                       | 69                | 178                       | 118                          | .....              |
| Layton.....                          | Sussex.....     | 480             | 25                               | 46.1        | 103     | July 22  | -11    | Feb. 9  | 25                      | 36.77              | 6.29             | Aug.  | 1.12          | May   | 57.5                         | 124                       | 156               | 54                        | 155                          | sw.                |
| Newton.....                          | Sussex.....     | 769             | 43                               | .....       | 99      | do. 22   | -9     | Jan. 29 | 40                      | .....              | 6.58             | do.   | 1.81          | Jan.  | 51.0                         | 129                       | 145               | 88                        | 132                          | sw.                |
| Phillipsburg.....                    | Warren.....     | 363             | 35                               | 50.1        | 105     | do. 22   | 4      | do. 29  | 43                      | .....              | 4.38             | July  | 1.61          | Mar.  | 28.9                         | .....                     | 172               | 89                        | 104                          | .....              |
| Sussex.....                          | Sussex.....     | 442             | 28                               | .....       | 100     | do. 22   | -9     | Feb. 9  | 31                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | nw.                |
| Means and extremes.....              |                 | .....           | .....                            | 47.9        | 105     | July 22  | -11    | Feb. 9  | .....                   | 43.27              | 7.32             | July  | 1.12          | May   | 46.6                         | 124                       | 132               | 93                        | 140                          | sw.                |
| The Red Sandstone Plain.             |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Bergen Point.....                    | Hudson.....     | 37              | 29                               | 51.3        | 103     | July 22  | 5      | Jan. 29 | 29                      | 48.06              | 7.87             | Aug.  | 1.72          | Apr.  | 40.6                         | 112                       | 62                | 214                       | 89                           | nw.                |
| Boonton.....                         | Morris.....     | 400             | 18                               | 46.9        | 95      | do. 10†  | -3     | Dec. 7  | 36                      | 47.13              | 6.92             | July  | 1.63          | Jan.  | .....                        | 124                       | 212               | 0                         | 153                          | nw.                |
| Chatham.....                         | Morris.....     | 185             | .....                            | .....       | .....   | .....    | .....  | .....   | 22                      | 55.66              | 8.25             | do.   | 2.10          | Apr.  | .....                        | 123                       | 214               | 74                        | 77                           | .....              |
| Elizabeth.....                       | Union.....      | 45              | 46                               | 51.1        | 104     | July 22  | -1     | Dec. 7  | 47                      | 49.39              | 7.46             | Aug.  | 1.97          | do.   | 35.9                         | 119                       | 145               | 116                       | 104                          | nw.                |
| Flemington.....                      | Hunterdon.....  | 140             | 29                               | 50.5        | 102     | July 21  | -3     | Dec. 7  | 40                      | 42.32              | 7.78             | Aug.  | 2.00          | Apr.  | 28.5                         | 130                       | 190               | 77                        | 98                           | w.                 |
| Highwood.....                        | Bergen.....     | 90              | 36                               | 48.2        | 98      | do. 22   | -6     | do. 7   | 38                      | 47.73              | 6.95             | do.   | 1.40          | June  | 46.8                         | 117                       | 133               | 82                        | 150                          | nw.                |
| Jersey City.....                     | Hudson.....     | 10              | 28                               | 51.0        | 102     | do. 22   | 5      | Jan. 29 | 28                      | 50.83              | 7.78             | do.   | 1.89          | Apr.  | 42.1                         | 128                       | 123               | 139                       | 103                          | nw.                |
| Lambertville.....                    | Hunterdon.....  | 370             | 39                               | 49.2        | 99      | do. 22   | 2      | do. 29  | 39                      | 46.15              | 6.19             | July  | 1.65          | do.   | 38.1                         | 147                       | 172               | 73                        | 120                          | nw.                |
| Little Falls.....                    | Passaic.....    | 180             | 12                               | 48.8        | 102     | July 22  | -3     | Dec. 7  | 23                      | 50.81              | 8.41             | Aug.  | 1.69          | June  | 40.8                         | 130                       | 152               | 100                       | 113                          | nw.                |
| New Brunswick.....                   | Middlesex.....  | 110             | 69                               | 50.2        | 100     | do. 22   | 3      | do. 7   | 73                      | 45.98              | 8.30             | do.   | 1.79          | Apr.  | 32.8                         | 126                       | 160               | 105                       | 100                          | nw.                |
| New Milford.....                     | Bergen.....     | 9               | .....                            | .....       | .....   | .....    | .....  | .....   | 8                       | .....              | 6.65             | do.   | 1.48          | June  | .....                        | 112                       | .....             | .....                     | .....                        | .....              |
| Paterson.....                        | Passaic.....    | 80              | 51                               | 51.1        | 102     | July 22  | 4      | Jan. 29 | 55                      | .....              | 8.14             | do.   | 1.76          | do.   | 38.0                         | 124                       | 168               | 49                        | 148                          | nw.                |
| Plainfield.....                      | Union.....      | 120             | 35                               | 48.7        | 101     | do. 22   | -4     | Dec. 7  | 38                      | 49.43              | 7.67             | do.   | 1.39          | Apr.  | 46.0                         | 127                       | 119               | 138                       | 108                          | nw.                |
| Ridgefield.....                      | Bergen.....     | 80              | 9                                | 49.1        | 98      | July 22  | 3      | Jan. 29 | 9                       | 43.65              | 6.66             | Aug.  | 1.83          | Apr.  | 49.8                         | 122                       | 137               | 119                       | 109                          | nw.                |
| Somerville.....                      | Somerset.....   | 70              | 42                               | 50.0        | 102     | do. 22   | -7     | Dec. 7  | 43                      | 45.39              | 7.30             | do.   | 1.78          | Apr.  | 29.6                         | 106                       | 213               | 65                        | 87                           | w.                 |
| South Orange.....                    | Essex.....      | 200             | 56                               | .....       | 93      | do. 22   | .....  | .....   | 56                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Verona.....                          | Essex.....      | 490             | 1                                | 48.1        | 95      | do. 22   | 1      | Jan. 29 | 18                      | 51.51              | 8.26             | July  | 2.04          | June  | 46.9                         | 129                       | 110               | 105                       | 150                          | w.                 |
| Woodcliff Lake.....                  | Bergen.....     | 100             | .....                            | .....       | .....   | .....    | .....  | .....   | .....                   | .....              | 5.04             | Aug.  | 1.08          | May   | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| New York, N. Y.....                  | .....           | 365             | 56                               | 50.3        | 97      | July 22  | 4      | Jan. 29 | 56                      | 49.68              | 7.57             | Aug.  | 1.76          | Apr.  | 35.9                         | 129                       | 95                | 133                       | 137                          | nw.                |
| Means and extremes.....              |                 | .....           | .....                            | 49.6        | 104     | July 22  | -7     | Dec. 7  | .....                   | 48.15              | 8.41             | Aug.  | 1.08          | May   | 39.7                         | 124                       | 154               | 97                        | 114                          | nw.                |
| The Southern Interior.               |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belle Plain.....                     | Cape May.....   | 30              | 31                               | .....       | 96      | July 22  | 0      | Dec. 19 | 32                      | 40.36              | 8.41             | July  | 1.95          | June  | 8.8                          | 126                       | .....             | .....                     | .....                        | .....              |
| Bridgeton.....                       | Cumberland..... | 90              | 40                               | 52.2        | 101     | Aug. 13† | 5      | do. 19  | 45                      | 37.67              | 5.23             | do.   | 1.79          | Oct.  | 15.4                         | 108                       | 166               | 66                        | 133                          | nw.                |
| Burlington.....                      | Burlington..... | 12              | 14                               | .....       | 102     | July 22  | .....  | .....   | 40                      | .....              | 6.53             | Aug.  | 2.09          | Mar.  | .....                        | .....                     | .....             | .....                     | .....                        | nw.                |
| Clayton.....                         | Gloucester..... | 130             | 25                               | .....       | 102     | do. 22   | .....  | .....   | 28                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | nw.                |
| Hammonton.....                       | Atlantic.....   | 103             | .....                            | .....       | .....   | .....    | .....  | .....   | 23                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Hightstown.....                      | Mercer.....     | 120             | 32                               | .....       | 100     | July 22  | -5     | Dec. 7  | 33                      | .....              | 8.84             | Aug.  | 2.08          | Apr.  | .....                        | .....                     | .....             | .....                     | .....                        | w.                 |
| Imlaystown.....                      | Monmouth.....   | 115             | 35                               | .....       | 101     | do. 22   | 3      | Feb. 6† | 38                      | .....              | 7.06             | Aug.  | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Indian Mills.....                    | Burlington..... | 76              | 37                               | 51.4        | 104     | do. 22   | -2     | Dec. 7  | 36                      | 49.67              | 7.13             | July  | 2.63          | Mar.  | 30.8                         | 115                       | .....             | .....                     | .....                        | nw.                |
| Lakewood.....                        | Ocean.....      | 54              | 22                               | 49.8        | 99      | July 10  | 3      | Jan. 29 | 22                      | 42.61              | 5.43             | July  | 2.34          | Apr.  | 27.0                         | 117                       | 160               | 74                        | 131                          | nw.                |
| Moorestown.....                      | Burlington..... | 75              | 63                               | 51.7        | 100     | do. 22   | 1      | Dec. 7  | 63                      | 44.27              | 6.21             | Aug.  | 1.98          | do.   | .....                        | 105                       | 173               | 92                        | 100                          | .....              |
| Northfield.....                      | Atlantic.....   | 25              | .....                            | .....       | .....   | .....    | .....  | .....   | 19                      | 39.02              | 6.73             | July  | 1.59          | do.   | 6.7                          | 109                       | .....             | .....                     | .....                        | .....              |
| Pleasantville.....                   | Atlantic.....   | 26              | 3                                | 50.5        | 98      | July 21  | 6      | Jan. 29 | 28                      | 40.15              | 6.62             | do.   | 1.80          | Sept. | .....                        | 117                       | 201               | 104                       | 60                           | nw.                |
| Riverton.....                        | Burlington..... | .....           | 1                                | .....       | 99      | July 22  | .....  | .....   | 1                       | .....              | 6.08             | Aug.  | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Runyon.....                          | Middlesex.....  | 18              | 3                                | 49.4        | 102     | do. 22   | -6     | Dec. 7  | 3                       | 46.02              | 7.58             | Aug.  | 2.02          | Apr.  | .....                        | 112                       | 186               | 120                       | 59                           | w.                 |
| Trenton.....                         | Mercer.....     | 190             | 54                               | 50.9        | 101     | do. 22   | 4      | Jan. 29 | 54                      | 45.19              | 7.73             | do.   | 2.01          | do.   | 35.3                         | 133                       | 116               | 118                       | 131                          | nw.                |
| Tuckerton.....                       | Ocean.....      | 23              | 28                               | .....       | 100     | do. 22   | 4      | do. 29  | 33                      | 45.39              | 7.00             | do.   | 2.10          | Sept. | .....                        | 122                       | .....             | .....                     | .....                        | .....              |
| Vineland.....                        | Cumberland..... | 109             | 57                               | 53.6        | 100     | do. 22   | 6      | do. 29† | 57                      | 40.97              | 5.44             | July  | 1.58          | Mar.  | 17.0                         | 101                       | .....             | .....                     | .....                        | .....              |
| Philadelphia, Pa.....                | .....           | 117             | 55                               | 53.6        | 100     | July 22  | 7      | Jan. 29 | 55                      | 44.91              | 8.40             | July  | 1.81          | Apr.  | 22.1                         | 128                       | 110               | 116                       | 139                          | sw.                |
| Means and extremes.....              |                 | .....           | .....                            | 51.2        | 104     | July 22  | -6     | Dec. 7  | .....                   | 42.84              | 8.84             | Aug.  | 1.58          | Mar.  | 20.1                         | 115                       | 167               | 96                        | 102                          | nw.                |
| The Sea Coast.                       |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Asbury Park.....                     | Monmouth.....   | 22              | 36                               | 50.3        | 98      | July 21  | 1      | Feb. 11 | 37                      | 41.51              | 6.48             | July  | 1.91          | June  | 27.7                         | 122                       | 199               | 100                       | 66                           | nw.                |
| Atlantic City.....                   | Atlantic.....   | 16              | 53                               | 52.1        | 100     | do. 21   | 7      | Jan. 29 | 53                      | 41.22              | 8.51             | do.   | 1.29          | do.   | 6.8                          | 122                       | 142               | 111                       | 112                          | s.                 |
| Cape May City.....                   | Cape May.....   | 17              | 42                               | 53.6        | 98      | do. 21   | 10     | do. 29  | 42                      | 41.58              | 8.82             | Aug.  | 1.54          | Sept. | 6.4                          | 117                       | .....             | .....                     | .....                        | .....              |
| Sandy Hook.....                      | Monmouth.....   | 22              | 28                               | 50.4        | 99      | do. 22   | 6      | do. 29  | 28                      | 39.48              | 6.46             | do.   | 1.68          | Apr.  | 29.8                         | 133                       | 115               | 119                       | 131                          | nw.                |
| Means and extremes.....              |                 | .....           | .....                            | 51.6        | 100     | July 21  | 1      | Feb. 11 | .....                   | 40.95              | 8.82             | Aug.  | 1.29          | June  | 17.7                         | 124                       | 152               | 110                       | 103                          | nw.                |
| For the State.....                   |                 | .....           | .....                            | 50.0        | 105     | July 22  | -11    | Feb. 9  | .....                   | 44.41              | 8.84             | Aug.  | 1.08          | May   | 32.2                         | 122                       | 157               | 95                        | 113                          | nw.                |

† Also on other dates



Monthly and Annual Precipitation for the Year 1926, with Departures from the Normal

| STATIONS                                    | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|---------------------------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
|                                             | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| <i>The Highlands and Kittatinny Valley.</i> |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belvidere.....                              | 2.78          | -0.76     | 5.56          | +1.72     | 1.98          | -1.87     | 2.28          | -1.38     | 1.82          | -2.01     | 2.54          | -1.46     | 4.27          | -0.71     | 5.20          | +0.59     | 4.54          | +0.77     | 5.60          | +1.93     | 4.24          | +1.00     | 2.98          | -1.09     | 43.79         | -3.27     |
| Charlotteburg.....                          | 2.41          | -1.14     | 6.13          | +2.11     | 1.98          | -2.22     | 2.05          | -2.27     | 1.77          | -2.43     | 2.81          | -1.31     | 4.39          | -0.44     | 5.93          | +1.31     | 5.36          | +0.94     | 5.42          | +0.95     | 5.46          | +1.94     | 2.86          | -1.47     | 46.57         | -4.03     |
| Culvers Lake.....                           | 2.15          | -1.03     | 3.44          | +0.38     | 1.86          | -1.61     | 1.44          | -2.38     | 1.63          | -2.00     | 3.79          | -0.82     | 3.36          | -1.21     | 6.68          | +2.26     | 3.74          | -0.80     | 4.62          | +0.44     | 4.17          | +1.37     | 2.37          | -1.29     | 39.25         | -6.69     |
| Dover.....                                  | 3.16          | -1.23     | 4.78          | +0.75     | 2.32          | -1.67     | 1.87          | -1.89     | 1.96          | -1.98     | 4.45          | +0.42     | 7.32          | +2.05     | 5.46          | +0.70     | 4.79          | +0.70     | 5.74          | +1.67     | 4.63          | +0.99     | 3.47          | -0.83     | 49.95         | -0.32     |
| Layton.....                                 | 1.98          | -0.91     | 5.25          | +2.51     | 2.31          | -1.06     | 1.95          | -1.66     | 1.12          | -2.13     | 2.59          | -1.20     | 1.29          | -2.97     | 6.29          | +2.39     | 3.64          | -0.28     | 4.12          | +0.50     | 4.56          | +2.07     | 1.67          | -2.27     | 36.77         | -5.01     |
| Newton.....                                 | 1.81          | -1.80     | 3.66          | +0.10     | 2.00          | -1.57     | 2.11          | -1.26     | 2.11          | -1.82     | 3.85          | -0.13     | 3.70          | -1.26     | 6.58          | +2.16     | 4.99          | +1.18     | \$            | .....     | 4.29          | +1.16     | 3.07          | -0.64     | .....         | .....     |
| Phillipsburg.....                           | 2.42          | -1.18     | 5.36          | +1.72     | 1.61          | -1.93     | 1.86          | -1.40     | 2.21          | -1.65     | 2.87          | -0.76     | 4.38          | -0.47     | 3.89          | -0.73     | 2.87          | -0.79     | \$            | .....     | 4.14          | +0.94     | 3.36          | -0.38     | .....         | .....     |
| Sussex.....                                 | 2.39          | -1.09     | \$            | .....     | 1.93          | -1.66     | 2.15          | -1.29     | 2.13          | -1.59     | 4.48          | +0.80     | 1.63          | -2.77     | .....         | .....     | 3.54          | -0.36     | 4.18          | +0.74     | 3.63          | +0.38     | \$            | .....     | .....         | .....     |
| <i>The Red Sandstone Plain.</i>             |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Bergen Point.....                           | 2.68          | -1.21     | 4.71          | +0.73     | 2.75          | -1.25     | 1.72          | -2.67     | 2.28          | -1.68     | 2.33          | -1.45     | 4.86          | +0.25     | 7.87          | +2.81     | 6.75          | +3.22     | 4.89          | +0.22     | 3.34          | +0.07     | 3.88          | -0.50     | 48.06         | -1.46     |
| Boonton.....                                | 1.63          | -2.20     | 4.40          | +0.43     | 1.65          | -2.29     | 2.08          | -1.91     | 1.92          | -2.14     | 3.09          | -0.58     | 6.92          | +2.02     | 6.70          | +1.62     | 5.79          | +1.66     | 4.71          | +0.80     | 5.54          | +1.97     | 2.70          | -1.28     | 47.13         | -1.90     |
| Chatham.....                                | 2.72          | -0.97     | 6.06          | +2.63     | 2.53          | -1.21     | 2.10          | -2.00     | 2.38          | -1.12     | 2.14          | -1.92     | 8.25          | +3.81     | 6.67          | +2.26     | 6.18          | +1.89     | 4.70          | +0.49     | 7.19          | +4.29     | 4.74          | +0.57     | 55.66         | +8.72     |
| Elizabeth.....                              | 2.13          | -1.91     | 5.66          | +1.49     | 2.29          | -1.93     | 1.97          | -1.71     | 2.79          | -1.03     | 3.30          | -0.32     | 5.65          | +0.49     | 7.46          | +3.17     | 6.44          | +2.67     | 4.52          | +0.63     | 3.88          | +0.63     | 3.30          | -0.66     | 49.39         | +1.52     |
| Flemington.....                             | 2.41          | -1.28     | 3.51          | -0.03     | 2.27          | -1.62     | 2.00          | -1.52     | 3.40          | -0.62     | 2.51          | -1.33     | 4.42          | -0.80     | 7.78          | +3.07     | 3.31          | -0.59     | 4.21          | +0.55     | 3.34          | +0.22     | 3.16          | -0.60     | 42.32         | -4.55     |
| Highwood.....                               | 4.04          | +0.09     | 5.89          | +1.63     | 3.14          | -1.04     | 2.60          | -0.83     | 2.31          | -1.52     | 1.40          | -2.29     | 5.07          | +0.12     | 6.95          | +2.20     | 4.11          | +0.19     | 4.04          | -0.38     | 4.28          | +0.78     | 3.90          | -0.31     | 47.73         | -1.36     |
| Jersey City.....                            | 2.70          | -0.80     | 5.77          | +2.05     | 2.73          | -1.42     | 1.89          | -2.27     | 2.67          | -0.91     | 2.58          | -0.92     | 6.13          | +1.69     | 7.78          | +3.25     | 6.08          | +2.73     | 5.39          | +1.71     | 3.26          | +0.07     | 3.85          | -0.08     | 50.83         | +5.10     |
| Lambertville.....                           | 2.65          | -1.00     | 4.02          | +0.54     | 2.44          | -1.59     | 1.65          | -1.93     | 3.27          | -0.75     | 3.20          | -0.71     | 6.19          | +1.37     | 4.46          | -0.20     | 5.48          | +1.59     | 5.14          | +1.66     | 4.22          | +1.01     | 3.43          | -0.44     | 46.15         | -0.45     |
| Little Falls.....                           | 1.94          | -1.76     | 5.99          | +2.52     | 1.97          | -1.62     | 2.71          | -1.41     | 2.22          | -1.57     | 1.69          | -1.83     | 5.59          | +1.20     | 8.41          | +4.01     | 6.10          | +2.52     | 4.47          | -0.04     | 6.20          | +3.30     | 3.52          | -0.57     | 50.81         | +4.75     |
| New Brunswick.....                          | 2.09          | -1.70     | 3.33          | -0.29     | 1.89          | -1.92     | 1.79          | -1.95     | 2.11          | -1.78     | 2.70          | -1.06     | 4.62          | -0.42     | 8.30          | +3.15     | 7.09          | +3.49     | 5.28          | +1.70     | 3.78          | +0.30     | 3.00          | -0.67     | 45.98         | -1.15     |
| New Milford.....                            | 2.48          | .....     | .....         | .....     | 2.58          | .....     | 1.94          | .....     | 2.49          | .....     | 1.48          | .....     | 4.10          | .....     | 6.65          | .....     | 4.18          | .....     | 4.51          | .....     | 4.61          | .....     | \$            | .....     | .....         | .....     |
| Paterson.....                               | 2.40          | -1.45     | 5.40          | +1.19     | 2.55          | -1.83     | 1.85          | -1.71     | 2.19          | -2.25     | 1.76          | -2.36     | 5.35          | +0.33     | 8.14          | +3.41     | 5.31          | +1.18     | \$            | .....     | 5.11          | +1.94     | 3.49          | -0.57     | .....         | .....     |
| Plainfield.....                             | 2.36          | -1.66     | 5.12          | +1.16     | 2.41          | -1.86     | 1.39          | -2.51     | 2.62          | -1.30     | 2.86          | -0.88     | 5.53          | -0.30     | 7.67          | +2.46     | 6.86          | +2.49     | 4.44          | +0.29     | 4.75          | +1.38     | 3.42          | -0.64     | 49.43         | -1.37     |
| Ridgefield.....                             | 2.64          | .....     | 5.57          | .....     | 2.73          | .....     | 1.83          | .....     | 2.35          | .....     | 2.10          | .....     | 5.48          | .....     | 6.66          | .....     | 4.23          | .....     | 3.67          | .....     | 3.01          | .....     | 3.38          | .....     | 43.65         | .....     |
| Somerville.....                             | 2.27          | -1.45     | 4.20          | +0.42     | 2.17          | -1.79     | 1.78          | -1.71     | 2.68          | -1.17     | 2.49          | -1.25     | 5.12          | +0.01     | 7.30          | +2.46     | 5.19          | -1.54     | 4.34          | +0.90     | 4.52          | +1.48     | 3.33          | -0.52     | 45.39         | -1.08     |
| South Orange.....                           | 3.10          | -0.93     | 6.30          | +2.37     | 3.15          | -0.71     | \$            | .....     | .....         | .....     | \$            | .....     | 7.82          | +2.81     | 7.55          | +2.50     | 5.11          | +1.30     | 5.32          | +1.48     | \$            | .....     | .....         | .....     | .....         | .....     |
| Verona.....                                 | 2.83          | .....     | 6.00          | .....     | 2.52          | .....     | 2.17          | .....     | 2.33          | .....     | 2.04          | .....     | 8.26          | .....     | 7.75          | .....     | 4.87          | .....     | 4.60          | .....     | 4.19          | .....     | 3.95          | .....     | 51.51         | .....     |
| Woodcliff Lake.....                         | 2.67          | .....     | .....         | .....     | 1.89          | .....     | 1.97          | .....     | 1.08          | .....     | 1.95          | .....     | 3.82          | .....     | 5.04          | .....     | 3.98          | .....     | 4.51          | .....     | 3.89          | .....     | \$            | .....     | .....         | .....     |
| New York, N. Y.....                         | 2.52          | -1.27     | 5.46          | +1.72     | 2.52          | -1.58     | 1.76          | -1.54     | 2.45          | -0.73     | 2.47          | -0.79     | 7.47          | +2.93     | 7.57          | +3.04     | 5.51          | +1.92     | 5.11          | +1.40     | 3.12          | -0.32     | 3.72          | +0.27     | 49.68         | +5.05     |
| <i>The Southern Interior.</i>               |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belleplain.....                             | 2.91          | -0.62     | 3.19          | -0.40     | 2.27          | -1.43     | 2.17          | -1.48     | 2.94          | -0.88     | 1.95          | -1.27     | 8.41          | +4.30     | 5.18          | +0.88     | 2.96          | -0.43     | 2.13          | -1.29     | 2.85          | +0.24     | 3.40          | -0.55     | 40.36         | -2.93     |
| Bridgeton.....                              | 2.66          | -0.86     | 4.04          | +0.22     | 1.86          | -2.32     | 1.83          | -1.69     | 2.78          | -1.06     | 2.88          | -0.85     | 5.23          | +0.74     | 3.74          | -0.85     | 3.76          | +0.45     | 1.79          | -1.80     | 3.41          | +0.61     | 3.59          | -0.23     | 37.57         | -7.64     |
| Burlington.....                             | .....         | .....     | 3.00          | -0.50     | 2.09          | -1.62     | 2.49          | -1.21     | 2.12          | -2.09     | 2.30          | -1.58     | 4.94          | +0.20     | 6.53          | +1.08     | 4.91          | +1.40     | 3.82          | +0.17     | 3.48          | +0.37     | 2.78          | -1.54     | .....         | .....     |
| Clayton.....                                | .....         | .....     | .....         | .....     | 1.55          | -2.03     | 2.80          | -0.68     | 2.10          | -1.23     | 2.05          | -1.62     | 5.35          | +0.50     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Hammonton.....                              | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | 4.91          | +0.20     | 5.56          | +1.58     | 2.52          | -0.67     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Hightstown.....                             | \$            | .....     | 3.89          | +0.29     | 2.17          | -1.87     | 2.03          | -1.83     | 2.59          | -1.36     | 2.57          | -1.03     | 4.10          | -0.89     | 8.84          | +4.26     | 2.90          | -0.23     | 4.66          | +0.95     | 3.27          | -0.04     | 3.35          | -0.34     | .....         | .....     |
| Imlaystown.....                             | 2.52          | -1.02     | \$            | .....     | 1.81          | -2.27     | 2.22          | -1.22     | .....         | .....     | .....         | .....     | 4.88          | +0.12     | 7.06          | +2.29     | 2.85          | -0.97     | \$            | .....     | 2.74          | -0.46     | 2.84          | -0.83     | .....         | .....     |
| Indian Mills.....                           | 3.53          | -0.29     | 4.81          | +1.36     | 2.63          | -1.40     | 2.97          | -0.46     | 2.86          | -0.38     | 4.73          | +0.60     | 7.13          | +2.47     | 5.90          | -0.03     | 3.92          | +0.01     | 2.93          | -0.51     | 4.10          | +1.02     | 4.16          | -0.24     | 49.67         | +2.15     |
| Lakewood.....                               | 3.18          | -0.50     | 4.97          | +1.40     | 2.47          | -1.51     | 2.34          | -1.33     | 3.19          | -0.21     | 3.10          | -0.61     | 5.43          | +0.58     | 3.82          | -2.23     | 2.74          | -0.05     | 3.51          | -0.08     | 4.11          | +1.65     | 3.75          | -0.89     | 42.61         | -3.78     |
| Moorestown.....                             | 2.56          | -0.90     | 3.65          | +0.17     | 2.24          | -1.52     | 1.98          | -1.31     | 2.46          | -1.56     | 3.23          | -0.49     | 6.10          | +1.42     | 6.21          | +1.32     | 4.63          | +1.00     | 4.22          | +0.65     | 3.87          | +0.62     | 3.12          | -0.57     | 44.27         | -1.17     |
| Northfield.....                             | 2.61          | -0.92     | 3.00          | +0.21     | 2.58          | -0.91     | 1.59          | -1.87     | 3.66          | +0.19     | 1.59          | -2.08     | 6.73          | +3.13     | 6.44          | +2.09     | 1.79          | -0.71     | 2.11          | -0.67     | 3.13          | +0.75     | 3.79          | -0.33     | 39.02         | -1.12     |
| Pleasantville.....                          | 2.48          | -0.68     | 3.46          | +0.65     | 2.44          | -1.03     | 2.24          | -1.11     | 3.49          | +0.23     | 2.06          | -1.87     | 6.62          | +2.64     | 5.65          | +0.72     | 1.80          | -1.32     | 2.27          | -1.17     | 3.32          | +0.60     | 4.32          | +0.08     | 40.15         | -2.26     |
| Riverton.....                               | .....         | .....     | .....         | .....     | 2.12          | .....     | 2.12          | .....     | 2.43          | .....     | 2.80          | .....     | 5.83          | .....     | 6.08          | .....     | 5.46          | .....     | 2.89          | .....     | 4.69          | .....     | 3.35          | .....     | .....         | .....     |
| Runyon.....                                 | 2.78          | .....     | 5.46          | .....     | 2.17          | .....     | 2.02          | .....     | 2.67          | .....     | 2.94          | .....     | 3.96          | .....     | 7.58          | .....     | 3.31          | .....     | 6.03          | .....     | 3.80          | .....     | 3.30          | .....     | 46.02         | .....     |
| Trenton.....                                | 2.25          | -0.92     | 3.92          | +0.73     | 2.22          | -1.82     | 2.01          | -1.28     | 3.00          | -0.52     | 2.46          | -1.03     | 5.15          | +0.38     | 7.73          | +2.36     | 4.57          | +0.98     | 4.09          | +0.68     | 4.79          | +1.36     | 3.00          | -0.16     | 45.19         | +0.76     |
| Tuckerton.....                              | 3.26          | -0.37     | 3.00          | -0.66     | 2.68          | -1.57     | 2.17          | -1.57     | 4.52          | +0.78     | 2.77          | -1.06     | 5.69          | +1.81     | 7.00          | +1.46     | 2.10          | -0.96     | 3.95          | +0.42     | 3.80          | +0.72     | 4.45          | -0.06     | 45.39         | -1.06     |
| Vineland.....                               | 3.00          | -1.02     | 4.51          | +0.79     | 1.58          | -2.38     | 2.36          | -1.04     | 3.03          | -0.60     | 2.70          | -0.87     | 5.44          | +0.87     | 4.94          | +0.13     | 3.13          | -0.56     | 2.32          | -1.02     | 3.34          | +0.23     | 4.62          | +0.80     | 40.97         | -4.67     |
| Philadelphia, Pa.....                       | 2.85          | -0.56     | 3.18          | -0.20     | 1.96          | -1.49     | 1.81          | -1.10     | 2.31          | -0.89     | 2.81          | -0.49     | 8.40          | +4.07     | 5.99          | +1.38     | 4.88          | +1.50     | 4.11          | +1.01     | 3.07          | +0.01     | 3.54          | +0.50     | 44.91         | +3.74     |
| <i>The Sea Coast.</i>                       |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Asbury Park.....                            | 3.20          | -0.37     | 4.50          | +1.00     | 2.23          | -2.00     | 2.17          | -1.52     | 4.12          | +0.54     | 1.91          | -1.71     |               |           |               |           |               |           |               |           |               |           |               |           |               |           |



## Monthly and Annual Mean Temperatures for the Year 1926, with Departures from the Normal

| STATIONS                             | January     |           | February    |           | March       |           | April       |           | May         |           | June        |           | July        |           | August      |           | September   |           | October     |           | November    |           | December    |           | Annual      |           |
|--------------------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                                      | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure |
| The Highlands and Kittatinny Valley. |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Belvidere.....                       | 28.8        | +1.5      | 28.0        | +0.9      | 34.6        | -3.5      | 46.2        | -3.6      | 60.6        | -0.1      | 64.8        | -4.0      | 73.5        | +0.3      | 72.5        | +1.5      | 63.8        | -0.9      | 53.6        | -0.2      | 40.7        | -0.4      | 26.2        | -4.4      | 49.4        | -1.1      |
| Charlotteburg.....                   | 27.0        | +0.1      | 26.0        | +0.4      | 31.0        | -4.8      | 42.4        | -4.4      | 55.7        | -1.8      | 61.6        | -3.2      | 69.4        | -0.6      | 69.2        | +1.3      | 60.4        | -1.5      | 48.3        | -3.3      | 39.4        | -0.7      | 26.0        | -3.8      | 46.1        | -1.9      |
| Dover.....                           | 27.9        | +1.3      | 26.6        | +0.4      | 33.0        | -2.2      | 44.1        | -3.3      | 58.0        | -0.6      | 62.6        | -4.1      | 71.6        | +0.2      | 70.6        | +1.5      | 61.4        | -0.8      | 49.6        | -1.7      | 39.8        | -0.3      | 24.9        | -5.0      | 47.5        | -1.2      |
| Layton.....                          | 26.0        | +1.3      | 24.4        | +0.8      | 31.0        | -4.6      | 42.6        | -4.6      | 55.8        | -2.2      | 61.1        | -4.4      | 71.2        | +0.3      | 70.2        | +1.8      | 61.0        | -1.3      | 47.8        | -3.7      | 39.4        | +0.6      | 23.2        | -4.2      | 46.1        | -1.7      |
| Newton.....                          | .....       | .....     | 25.7        | -0.8      | 31.8        | -3.7      | 43.4        | -4.6      | 57.9        | -1.6      | 62.6        | -5.4      | 72.2        | -0.3      | 71.8        | +1.4      | 62.8        | -0.7      | 51.3        | -1.4      | 41.4        | +0.9      | 25.4        | -4.7      | .....       | .....     |
| Phillipsburg.....                    | 30.9        | +2.8      | 28.8        | +0.9      | 33.8        | -4.3      | 46.0        | -3.9      | 60.2        | -1.1      | 65.4        | -3.9      | 73.6        | -0.5      | 73.4        | +1.6      | 65.5        | +0.3      | 52.5        | -1.4      | 43.4        | +2.2      | 28.2        | -3.1      | 50.1        | -0.9      |
| Sussex.....                          | 27.6        | +1.0      | 26.0        | +0.6      | 31.2        | -5.1      | 43.3        | -5.3      | 57.6        | -2.3      | 62.2        | -4.6      | 71.8        | -0.3      | .....       | .....     | 62.4        | -1.8      | 50.4        | -2.8      | 40.2        | -0.9      | 24.6        | -5.3      | .....       | .....     |
| The Red Sandstone Plain.             |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Bergen Point.....                    | 32.2        | +1.5      | 29.8        | +0.4      | 36.4        | -3.1      | 47.2        | -2.3      | 59.2        | -1.1      | 66.0        | -2.4      | 74.6        | +0.6      | 74.6        | +2.4      | 66.2        | -0.2      | 55.0        | -1.2      | 44.4        | +0.7      | 29.6        | -3.4      | 51.3        | -0.7      |
| Boonton.....                         | 26.4        | -0.9      | 24.9        | -2.2      | 32.2        | -4.4      | 43.5        | -5.2      | 56.2        | -3.0      | 62.2        | -5.4      | 70.8        | -1.7      | 70.4        | -0.9      | 61.0        | -2.6      | 49.5        | -3.3      | 40.4        | -1.0      | 24.8        | -5.7      | 46.9        | -3.0      |
| Elizabeth.....                       | 31.4        | +1.2      | 29.8        | -0.7      | 36.4        | -2.4      | 47.8        | -3.0      | 59.8        | -2.2      | 66.2        | -4.3      | 75.0        | -0.3      | 74.3        | +0.9      | 65.9        | -0.8      | 54.4        | -1.0      | 43.2        | -0.3      | 28.8        | -4.5      | 51.1        | -1.4      |
| Flemington.....                      | 30.4        | +0.6      | 29.7        | +0.9      | 35.8        | -4.3      | 47.4        | -3.0      | 60.2        | -1.1      | 65.6        | -3.6      | 74.2        | -0.4      | 73.1        | +0.6      | 65.2        | -1.1      | 53.4        | -2.6      | 42.4        | -0.6      | 28.2        | -3.8      | 50.5        | -1.5      |
| Highwood.....                        | 29.6        | +0.8      | 27.5        | -0.9      | 33.8        | -3.2      | 45.6        | -2.9      | 57.2        | -2.1      | 63.4        | -4.2      | 71.3        | -1.0      | 70.6        | -0.2      | 61.9        | -1.8      | 50.5        | -2.9      | 41.3        | -0.7      | 26.0        | -5.8      | 48.2        | -2.1      |
| Jersey City.....                     | 32.0        | -0.2      | 29.6        | -1.0      | 35.6        | -3.6      | 46.5        | -3.5      | 59.8        | -1.8      | 66.0        | -4.9      | 74.5        | -1.6      | 73.8        | -0.3      | 65.8        | -1.4      | 54.7        | -1.6      | 44.1        | +0.1      | 29.6        | -4.5      | 51.0        | -2.0      |
| Lambertville.....                    | 29.4        | -1.1      | 28.8        | -1.6      | 34.3        | -5.1      | 45.8        | -4.9      | 59.0        | -2.6      | 64.4        | -5.3      | 73.0        | -1.3      | 72.0        | -0.4      | 63.8        | -2.0      | 52.0        | -2.6      | 41.3        | -1.9      | 26.7        | -6.9      | 49.2        | -3.0      |
| Little Falls.....                    | 28.8        | +0.8      | 26.4        | -3.2      | 33.6        | -4.4      | 44.4        | -5.5      | 58.4        | -1.3      | 64.4        | -3.6      | 72.9        | -0.9      | 72.0        | -1.2      | 63.8        | -0.3      | 52.0        | -2.9      | 42.1        | -0.1      | 26.2        | -5.3      | 48.8        | -2.3      |
| New Brunswick.....                   | 30.8        | +0.6      | 29.1        | -1.7      | 35.6        | -3.2      | 46.7        | -2.9      | 59.8        | -0.6      | 64.9        | -4.2      | 73.7        | -0.3      | 72.8        | +0.7      | 65.0        | -0.6      | 53.2        | -1.6      | 42.8        | -0.6      | 28.3        | -4.9      | 50.2        | -1.6      |
| Paterson.....                        | 31.7        | +2.1      | 29.4        | -0.8      | 36.3        | -2.5      | 47.6        | -2.9      | 61.0        | -0.5      | 67.2        | -2.6      | 75.4        | +1.0      | 73.5        | +1.3      | 65.0        | -1.2      | 53.3        | -1.9      | 43.1        | -0.4      | 29.2        | -3.9      | 51.1        | -1.0      |
| Plainfield.....                      | 30.1        | +0.1      | 27.6        | -1.1      | 34.5        | -4.3      | 45.0        | -4.6      | 57.8        | -2.4      | 63.5        | -5.1      | 72.1        | -1.9      | 71.6        | -0.2      | 62.9        | -2.7      | 51.6        | -2.6      | 41.0        | -1.5      | 27.2        | -5.5      | 48.7        | -2.6      |
| Ridgefield.....                      | 30.4        | .....     | 27.6        | .....     | 34.2        | .....     | 45.8        | .....     | 58.2        | .....     | 64.1        | .....     | 72.8        | .....     | 72.2        | .....     | 63.6        | .....     | 51.7        | .....     | 42.0        | .....     | 26.4        | .....     | 49.1        | .....     |
| Somerville.....                      | 30.3        | +1.5      | 29.3        | +0.4      | 35.2        | -3.0      | 46.7        | -2.8      | 58.9        | -1.9      | 64.8        | -4.3      | 73.8        | -0.3      | 73.4        | +1.0      | 65.0        | -1.0      | 52.5        | -1.8      | 41.9        | -0.5      | 28.1        | -4.1      | 50.0        | -1.4      |
| South Orange.....                    | 30.4        | +1.5      | 28.2        | -0.8      | 34.7        | -2.4      | 45.4        | -3.1      | .....       | .....     | 65.4        | -3.1      | 71.8        | -1.4      | 71.2        | +0.3      | 63.1        | -1.0      | 54.4        | +1.0      | .....       | .....     | .....       | .....     | .....       | .....     |
| Verona.....                          | 29.3        | .....     | 27.0        | .....     | 33.3        | .....     | 44.8        | .....     | 57.4        | .....     | 63.1        | .....     | 71.4        | .....     | 70.4        | .....     | 61.5        | .....     | 50.8        | .....     | 41.4        | .....     | 26.3        | .....     | 48.1        | .....     |
| New York, N. Y.....                  | 31.8        | +0.9      | 29.4        | -1.9      | 35.1        | -2.6      | 46.0        | -3.4      | 58.5        | -2.1      | 64.8        | -4.0      | 73.2        | -0.6      | 72.8        | -0.3      | 64.8        | -2.0      | 54.2        | -2.1      | 44.0        | -0.2      | 29.2        | -5.8      | 50.3        | -2.0      |
| The Southern Interior.               |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Belleplain.....                      | 31.8        | -1.2      | 33.6        | +2.1      | 36.6        | -4.5      | 47.6        | -3.0      | 58.8        | -2.3      | 64.9        | -3.8      | 70.9        | -2.9      | 71.2        | -1.4      | .....       | .....     | 52.8        | -3.5      | 42.0        | -2.5      | 30.6        | -4.5      | .....       | .....     |
| Bridgeton.....                       | 32.9        | -0.8      | 33.0        | -0.7      | 37.6        | -4.7      | 49.2        | -3.5      | 60.6        | -3.4      | 66.9        | -5.2      | 74.2        | -2.5      | 75.5        | +0.5      | 66.6        | -1.6      | 55.0        | -2.4      | 43.2        | -2.4      | 31.6        | -4.6      | 52.2        | -2.6      |
| Burlington.....                      | .....       | .....     | 32.0        | +0.7      | .....       | .....     | 49.3        | -2.5      | 62.6        | +0.7      | 67.2        | -2.5      | 76.0        | +1.0      | 75.4        | +1.2      | 67.5        | +0.7      | 55.1        | -3.1      | 45.0        | +0.6      | 30.4        | -3.4      | .....       | .....     |
| Clayton.....                         | .....       | .....     | .....       | .....     | 37.4        | -4.3      | 48.8        | -2.4      | 61.9        | +0.2      | 68.0        | -1.5      | 76.0        | +1.0      | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     |
| Hightstown.....                      | .....       | .....     | 29.0        | -0.4      | 35.4        | -5.0      | 47.2        | -3.3      | 59.4        | -1.9      | 65.6        | -3.4      | .....       | .....     | 73.2        | +0.9      | 65.0        | -1.8      | 58.3        | -1.9      | 42.6        | -0.7      | 28.9        | -3.7      | .....       | .....     |
| Imlaystown.....                      | 30.4        | -0.7      | 29.2        | -1.2      | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | 73.6        | -1.1      | .....       | .....     | 65.7        | -0.6      | 52.8        | -2.3      | 42.0        | -0.8      | 29.1        | -3.8      | .....       | .....     |
| Indian Mills.....                    | 32.5        | +0.6      | 32.2        | +0.4      | 36.6        | -3.9      | 48.4        | -1.9      | 60.2        | -1.9      | 65.9        | -3.9      | 73.4        | -1.3      | 74.5        | +1.9      | 66.2        | +0.1      | 54.2        | -1.3      | 42.9        | 0.0       | 30.4        | -3.4      | 51.4        | -1.2      |
| Lakewood.....                        | 31.4        | +0.1      | 29.6        | -0.1      | 35.1        | -4.5      | 46.8        | -2.6      | 58.3        | -1.9      | 64.6        | -2.9      | 72.8        | 0.0       | 72.6        | +1.5      | 63.4        | -1.2      | 52.6        | -2.5      | 41.2        | -1.6      | 29.6        | -3.9      | 49.8        | -1.6      |
| Moorestown.....                      | 31.6        | +0.9      | 31.9        | +0.6      | 37.6        | -1.6      | 48.6        | -1.8      | 61.4        | +0.1      | 65.6        | -4.4      | 74.0        | -0.7      | 73.5        | +0.9      | 66.7        | +0.7      | 55.4        | +0.7      | 43.8        | +0.6      | 29.9        | -3.6      | 51.7        | -0.6      |
| Pleasantville.....                   | 32.4        | .....     | 31.8        | .....     | 35.4        | .....     | 46.6        | .....     | 57.1        | .....     | 64.4        | .....     | 71.7        | .....     | 73.4        | .....     | 64.6        | .....     | 54.5        | .....     | 42.6        | .....     | 31.0        | .....     | 50.5        | .....     |
| Riverton.....                        | .....       | .....     | .....       | .....     | 36.1        | .....     | 47.2        | .....     | 59.7        | .....     | 65.2        | .....     | 72.6        | .....     | 73.0        | .....     | 64.6        | .....     | 53.2        | .....     | 43.0        | .....     | 28.4        | .....     | .....       | .....     |
| Runyon.....                          | 29.8        | .....     | 29.2        | .....     | 35.4        | .....     | 46.4        | .....     | 58.0        | .....     | 64.2        | .....     | 72.4        | .....     | 72.4        | .....     | 63.2        | .....     | 52.2        | .....     | 42.0        | .....     | 27.2        | .....     | 49.4        | .....     |
| Trenton.....                         | 32.2        | +1.7      | 30.1        | -0.6      | 36.0        | -3.1      | 47.2        | -2.6      | 60.6        | -0.5      | 65.6        | -3.9      | 74.0        | -0.5      | 73.5        | +0.5      | 65.1        | -1.8      | 54.3        | -1.3      | 43.7        | -0.7      | 28.8        | -5.6      | 50.9        | -1.5      |
| Tuckerton.....                       | 33.1        | +0.5      | 32.6        | +1.8      | .....       | .....     | .....       | .....     | 60.8        | +0.9      | 67.8        | -0.6      | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | 44.2        | +0.1      | .....       | .....     | .....       | .....     |
| Vineland.....                        | 34.0        | +1.8      | 34.2        | +1.7      | 38.9        | -1.6      | 50.3        | -0.7      | 63.1        | +0.8      | 68.0        | -3.2      | 75.4        | -1.0      | 76.4        | +2.7      | 68.0        | +1.0      | 57.6        | +1.6      | 45.6        | +1.5      | 31.9        | -2.6      | 53.6        | +0.2      |
| Philadelphia, Pa.....                | 34.3        | +1.9      | 33.6        | -0.3      | 39.0        | -1.8      | 50.4        | -1.7      | 63.0        | +0.1      | 68.0        | -3.4      | 75.7        | -0.5      | 75.4        | +0.6      | 67.6        | -0.4      | 57.0        | -0.8      | 46.4        | +0.7      | 32.3        | -4.0      | 53.6        | -0.8      |
| The Sea Coast.                       |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Asbury Park.....                     | 33.1        | +0.9      | 30.6        | -0.8      | 35.6        | -3.4      | 45.4        | -3.1      | 56.4        | -2.4      | 63.4        | -4.0      | 71.4        | -1.0      | 72.8        | +1.0      | 65.6        | -1.2      | 54.6        | -1.2      | 43.6        | -1.2      | 31.0        | -4.0      | 50.3        | -1.7      |
| Atlantic City.....                   | 34.2        | +1.7      | 33.8        | +0.2      | 36.8        | -1.8      | 47.6        | -0.2      | 58.6        | +0.5      | 64.9        | -1.7      | 72.4        | +0.3      | 74.2        | +1.7      | 67.2        | +0.4      | 56.8        | -0.1      | 46.2        | +0.6      | 33.0        | -3.4      | 52.1        | -0.2      |
| Cape May City.....                   | 34.6        | +0.5      | 34.8        | +0.7      | 38.6        | -2.2      | 50.1        | +1.7      | 61.5        | +2.9      | 68.6        | +0.9      | 74.4        | +1.0      | 75.5        | +2.1      | 67.7        | -1.3      | 57.4        | -2.2      | 46.8        | -0.6      | 33.4        | -4.6      | 53.6        | -0.1      |
| Sandy Hook.....                      | 31.5        | +0.7      | 29.8        | -0.8      | 35.4        | -1.6      | 45.8        | -1.2      | 57.4        | -1.1      | 64.6        | -3.2      | 72.7        | -1.0      | 73.2        | +0.4      | 65.8        | -1.3      | 55.1        | -1.9      | 44.3        | -0.3      | 29.7        | -4.7      | 50.4        | -1.3      |

Letters of alphabet denote number of days missing



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXII.

JANUARY, 1927.

No. 1

### GENERAL SUMMARY.

Winter weather of approximate normal type occurred during January, 1927 in New Jersey. There was a slight deficiency from normal in warmth, precipitation and sunshine, and a little more snow than usual, but the snow occurred in practically all one storm. This snow was closely followed by a period of 5 days of excessive warmth, and the snow entirely disappeared. The total precipitation was the least for January since 1916. There were cold waves on the 15th and 27th, but they were not severe nor of long duration. Temperatures below zero were very general from central sections northward on the 27th, attendant upon pressure of 31 inches, closely approaching the highest pressure on record in this section. The variation in heat and cold was rather abrupt, with warm and cold periods persisting for several days at a time with fair regularity.

On the whole the weather gave the general impression of being mild and open.

Storm warnings were displayed along the coast on the 4th, 15th, and 16th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 36 stations, was 29.2°, which was 0.7° below normal. The highest temperature was 70° at Pleasantville on the 22d, and the lowest 12° below zero at Culvers Lake on the 27th. The greatest daily range of temperature was 44° at Belleplain and Indian Mills on the 28th. The highest monthly mean temperature was 32.6° at Atlantic City and Cape May City, and the lowest, 24.2° at Layton.

The temperature departure from the normal for the year 1927, to date, by sections, is: The Highlands, 0.0°; Red Sandstone Plain, -0.8°; Southern Interior, -0.9°; Sea Coast, -1.0°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 40 stations, was 2.22 inches, which was 1.39 inches below normal. The average total snowfall at eight selected stations was 7.9 inches, which was 0.5 inch above normal.

The greatest monthly precipitation was 3.32 inches, at Runyon, and the least, 1.19 inches at Atlantic City. The greatest amount of precipitation in any 24 consecutive hours was 1.44 inches at Sussex on the 15-16th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 1 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -0.76 inch; Red Sandstone Plain, -1.57 inches; Southern Interior, -1.47 inches; Sea Coast, -1.89 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 13 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive minutes, was 54 miles per hour from the northwest at Sandy Hook on the 16th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which was normal; partly cloudy, 7, or 2 less than normal; cloudy, 13, or 2 more than normal. The per cent of possible sunshine was 46, which was 4 per cent below normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.15 inches, which was 0.04 inch above normal. The highest reading was 31.03 inches at Verona, on the 27th, and the lowest, 29.35 inches at Sandy Hook and Verona on the 4th.

The Delaware River remained frozen most of month at Trenton and Phillipsburg. The highest readings obtained were 5.8 feet at Trenton and 8.0 feet at Phillipsburg, both on the 24th.

Dense fog occurred on the 14th, 19th, 20th, 21st, 22d, 29th and 30th. Sleet fell on the 22d, 23d, 24th, 28th and 29th. A solar halo was observed on the 8th, and lunar halos on the 13th and 16th.

### COMPARATIVE DATA FOR JANUARY

| Year      | Temperature |         |        | Precipitation |          |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 30.8        | 67      | 0      | 4.08          | 5.41     | 3.33  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 27.3        | 60      | -10    | 4.47          | 5.59     | 3.08  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 28.4        | 67      | -6     | 3.86          | 6.65     | 2.00  | .....    | .....       | .....         | .....  | .....                  |
| 1888..... | 25.4        | 59      | -12    | 4.77          | 6.74     | 2.80  | .....    | .....       | .....         | 12     | 10                     |
| 1889..... | 36.2        | 60      | 8      | 5.08          | 8.78     | 3.84  | .....    | .....       | .....         | 12     | 9                      |
| 1890..... | 41.3        | 78      | 12     | 2.29          | 3.22     | 1.05  | .....    | .....       | .....         | 9      | 9                      |
| 1891..... | 34.2        | 59      | 10     | 6.57          | 10.55    | 4.41  | .....    | .....       | .....         | 11     | 10                     |
| 1892..... | 29.9        | 67      | -6     | 5.13          | 7.05     | 2.50  | .....    | 10          | 11            | 10     | 10                     |
| 1893..... | 21.6        | 54      | -21    | 3.04          | 4.56     | 1.87  | .....    | 10          | 10            | 11     | 9                      |
| 1894..... | 34.2        | 61      | -4     | 2.34          | 3.80     | 1.18  | .....    | 10          | 8             | 13     | 11                     |
| 1895..... | 28.1        | 64      | -4     | 4.66          | 5.80     | 2.48  | 9.7      | 10          | 10            | 11     | 11                     |
| 1896..... | 28.6        | 61      | -7     | 1.66          | 2.81     | 0.63  | .....    | 12          | 10            | 9      | 5                      |
| 1897..... | 29.0        | 64      | -6     | 2.80          | 4.21     | 1.70  | 11.5     | 11          | 8             | 12     | 9                      |
| 1898..... | 32.6        | 64      | -10    | 4.20          | 5.90     | 2.79  | 9.7      | 9           | 11            | 11     | 11                     |
| 1899..... | 30.1        | 60      | -21    | 4.01          | 5.73     | 2.40  | 6.0      | 13          | 8             | 10     | 11                     |
| 1900..... | 32.4        | 64      | -5     | 3.85          | 5.50     | 2.37  | 2.6      | 11          | 11            | 9      | 10                     |
| 1901..... | 30.4        | 63      | -6     | 2.52          | 4.00     | 1.35  | 5.4      | 11          | 11            | 9      | 9                      |
| 1902..... | 28.4        | 58      | -5     | 3.28          | 4.35     | 2.52  | 8.6      | 12          | 9             | 10     | 10                     |
| 1903..... | 30.4        | 57      | -5     | 3.90          | 5.04     | 2.31  | 6.4      | 10          | 10            | 11     | 10                     |
| 1904..... | 23.3        | 58      | -34    | 3.09          | 4.67     | 1.34  | 15.6     | 13          | 7             | 11     | 10                     |
| 1905..... | 27.0        | 60      | -16    | 4.18          | 7.13     | 2.68  | 21.3     | 12          | 9             | 10     | 9                      |
| 1906..... | 36.5        | 74      | -5     | 2.85          | 3.86     | 2.08  | 3.1      | 11          | 9             | 11     | 11                     |
| 1907..... | 31.8        | 71      | -19    | 3.50          | 5.80     | 1.93  | 10.3     | 8           | 9             | 14     | 14                     |
| 1908..... | 31.8        | 60      | -6     | 3.74          | 5.22     | 2.29  | 9.9      | 12          | 11            | 8      | 9                      |
| 1909..... | 33.2        | 69      | -12    | 3.18          | 4.13     | 2.18  | 7.5      | 8           | 9             | 14     | 12                     |
| 1910..... | 29.7        | 54      | -15    | 5.04          | 6.65     | 3.66  | 13.3     | 8           | 8             | 15     | 15                     |
| 1911..... | 33.5        | 63      | 0      | 3.44          | 5.34     | 1.97  | 3.6      | 10          | 7             | 14     | 14                     |
| 1912..... | 22.3        | 58      | -32    | 2.82          | 4.62     | 1.73  | 13.4     | 8           | 12            | 11     | 13                     |
| 1913..... | 35.9        | 68      | 10     | 3.58          | 4.71     | 2.63  | 0.8      | 11          | 7             | 13     | 14                     |
| 1914..... | 31.9        | 73      | -12    | 3.85          | 6.15     | 1.95  | 2.4      | 9           | 8             | 14     | 9                      |
| 1915..... | 33.5        | 61      | 3      | 6.55          | 8.92     | 4.40  | 3.4      | 11          | 6             | 14     | 12                     |
| 1916..... | 35.1        | 74      | -2     | 1.60          | 2.96     | 0.92  | 1.9      | 11          | 8             | 12     | 11                     |
| 1917..... | 31.4        | 58      | 0      | 3.26          | 4.52     | 2.35  | 5.4      | 10          | 8             | 13     | 13                     |
| 1918..... | 20.3        | 56      | -16    | 4.14          | 6.14     | 2.78  | 18.9     | 12          | 8             | 11     | 11                     |
| 1919..... | 34.1        | 62      | -7     | 3.51          | 4.44     | 2.24  | 1.3      | 14          | 7             | 10     | 8                      |
| 1920..... | 23.6        | 53      | -10    | 2.60          | 3.53     | 1.61  | 6.6      | 11          | 7             | 13     | 11                     |
| 1921..... | 33.0        | 63      | -5     | 2.63          | 3.49     | 1.78  | 2.7      | 13          | 8             | 10     | 9                      |
| 1922..... | 27.6        | 57      | -11    | 2.62          | 4.13     | 1.08  | 11.1     | 15          | 6             | 10     | 8                      |
| 1923..... | 30.1        | 66      | -14    | 5.22          | 7.26     | 3.41  | 16.6     | 9           | 7             | 15     | 12                     |
| 1924..... | 32.2        | 65      | -6     | 4.48          | 5.69     | 2.88  | 1.4      | 15          | 8             | 8      | 8                      |
| 1925..... | 27.4        | 59      | -20    | 4.43          | 8.73     | 2.54  | 22.8     | 12          | 6             | 13     | 10                     |
| 1926..... | 30.8        | 63      | -9     | 2.61          | 4.04     | 1.63  | 2.4      | 11          | 8             | 12     | 9                      |
| 1927..... | 29.2        | 70      | -12    | 2.22          | 3.32     | 1.19  | 7.9      | 11          | 7             | 13     | 11                     |



## Climatological Data for January, 1927

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                             |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                      |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Belvidere.....                       | Warren.....     | 289             | 36                      | 27.0                         | -0.3                      | 44      | 19   | -2     | 27   | 30                       | 3.02  | -0.52                     | 0.60                 | 6.5                       | 12                           | 16    | 2          | 13                           | .....     | Miss C. S. Hixson.          |
| Charlotteburg.....                   | Passaic.....    | 719             | 35                      | 26.2                         | -0.7                      | 50      | 22   | -7     | 27   | 36                       | 3.21  | -0.34                     | 0.69                 | 8.5                       | 11                           | 4     | 9          | 18                           | e.        | Newark Water Dept.          |
| Culvers Lake.....                    | Sussex.....     | 848             | 26                      | 26.4                         | -0.2                      | 47      | 22   | -12    | 27   | 24                       | 2.37  | -0.81                     | 0.41                 | 14.2                      | 13                           | 11    | 5          | 15                           | e.        | Brice E. Riker.             |
| Dover.....                           | Morris.....     | 600             | 43                      | 26.4 <sup>b</sup>            | -0.2                      | 47      | 22   | -4     | 27   | 24                       | 2.96  | -1.43                     | 1.20                 | 12.5                      | 11                           | 9     | 12         | 10                           | .....     | William C. Harris.          |
| Layton.....                          | Sussex.....     | 480             | 26                      | 24.2                         | -0.5                      | 48      | 24   | -8     | 27   | 41                       | 2.29  | -0.60                     | 1.10                 | 13.0                      | 11                           | 11    | 3          | 17                           | sw.       | A. M. Depue.                |
| Newton.....                          | Sussex.....     | 769             | 43                      | 26.5 <sup>d</sup>            | +0.8                      | 46      | 22   | -6     | 27   | 33                       | 2.57  | -1.04                     | 0.95                 | 14.2                      | 11                           | 9     | 8          | 14                           | sw.       | Irving J. Kern.             |
| Phillipsburg.....                    | Warren.....     | 363             | 44                      | 29.2 <sup>a</sup>            | +1.1                      | 48      | 31   | 1      | 27   | ...                      | 2.45  | -1.15                     | 0.58                 | 7.0                       | 10                           | 12    | 6          | 13                           | .....     | Town Engineer.              |
| Sussex.....                          | Sussex.....     | 442             | 32                      | 26.5 <sup>e</sup>            | -0.1                      | ...     | ...  | ...    | ...  | ...                      | 3.31  | -0.17                     | 1.44                 | 15.8                      | 13                           | 12    | 2          | 17                           | nw.       | A. J. W. Mowatt.            |
| Means and extremes...                |                 | ...             | ...                     | 26.6                         | 0.0                       | 50      | 22   | -12    | 27   | 41                       | 2.77  | -0.76                     | 1.44                 | 11.5                      | 12                           | 10    | 6          | 15                           | sw.       |                             |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Bergen Point.....                    | Hudson.....     | 37              | 30                      | 30.8                         | +0.1                      | 50      | 19   | -2     | 27   | 37                       | 2.10  | -1.79                     | 0.49                 | 4.0                       | 11                           | 6     | 13         | 12                           | nw.       | William H. Mitchell         |
| Boonton.....                         | Morris.....     | 400             | 37                      | 25.8                         | -1.5                      | 51      | 22   | -4     | 27   | 38                       | 1.66  | -2.17                     | 0.45                 | ...                       | 12                           | 13    | 1          | 17                           | sw.       | John Kline.                 |
| Chatham.....                         | Morris.....     | 185             | 23                      | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | 2.44  | -1.25                     | 1.01                 | 6.0                       | 13                           | 15    | 6          | 10                           | .....     | Paul Molitor, Sr.           |
| Elizabeth.....                       | Union.....      | 45              | 48                      | 29.8 <sup>d</sup>            | -0.4                      | 49      | 22   | 3      | 27   | ...                      | §     | ...                       | ...                  | 9.0                       | 13                           | 15    | 6          | 10                           | nw.       | Union County Park Com       |
| Flemington.....                      | Hunterdon.....  | 140             | 41                      | 29.5                         | -0.3                      | 48      | 29   | 1      | 27   | 32                       | 2.82  | -0.87                     | 0.60                 | 6.5                       | 13                           | 15    | 4          | 12                           | w.        | Hiram E. Deats.             |
| Highwood.....                        | Bergen.....     | 90              | 39                      | 27.8                         | -1.0                      | 47      | 22   | -3     | 27   | 29                       | 2.01  | -1.94                     | 0.42                 | 7.2                       | 12                           | 9     | 6          | 16                           | nw.       | Charles J. Bates.           |
| Jersey City.....                     | Hudson.....     | 10              | 29                      | 30.4                         | -1.8                      | 49      | 19   | 0      | 27   | 30                       | 2.06  | -1.44                     | 0.47                 | 6.7                       | 12                           | 11    | 8          | 12                           | nw.       | S. K. Pearson, Jr.          |
| Lambertville.....                    | Hunterdon.....  | 370             | 40                      | 28.0                         | -2.5                      | 48      | 22   | 0      | 27   | 29                       | 2.69  | -0.96                     | 0.92                 | 10.5                      | 13                           | 13    | 6          | 12                           | nw.       | Wm. J. Lauderdale.          |
| Little Falls.....                    | Passaic.....    | 180             | 24                      | 27.8 <sup>a</sup>            | -0.2                      | 50      | 22   | -2     | 27   | 33                       | 1.84  | -1.86                     | 0.41                 | ...                       | 13                           | 12    | 8          | 11                           | nw.       | Passaic Consol. Water Co    |
| New Brunswick.....                   | Middlesex.....  | 110             | 74                      | 29.3                         | -0.9                      | 49      | 19   | 0      | 27   | 31                       | 1.97  | -1.82                     | 0.49                 | 10.0                      | 12                           | 14    | 5          | 12                           | n         | N. J. Experiment Station.   |
| New Milford.....                     | Bergen.....     | 9               | 9                       | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | §     | ...                       | ...                  | ...                       | 11                           | ...   | ...        | ...                          | n         | Hackensack Water Co         |
| Paterson.....                        | Passaic.....    | 80              | 56                      | 30.2                         | +0.6                      | 50      | 22   | -1     | 27   | 31                       | 1.53  | -2.32                     | 0.34                 | 7.0                       | 9                            | 15    | 4          | 12                           | nw.       | Marion T. Probert.          |
| Plainfield.....                      | Union.....      | 120             | 39                      | 28.2                         | -1.8                      | 47      | 19   | -2     | 27   | 32                       | 2.58  | -1.44                     | 1.01                 | 14.5                      | 12                           | 8     | 12         | 11                           | sw.       | E. D. Pearson.              |
| Ridgefield.....                      | Bergen.....     | 80              | 10                      | 28.6                         | ...                       | 50      | 29   | -2     | 27   | 29                       | 2.02  | ...                       | 0.50                 | 7.0                       | 12                           | 11    | 7          | 13                           | nw.       | George P. Kirsten.          |
| Somerville.....                      | Somerset.....   | 70              | 44                      | 29.2                         | +0.4                      | 48      | 19   | 0      | 27   | 33                       | 2.72  | -1.00                     | 0.60                 | 11.2                      | 11                           | 16    | 3          | 12                           | w.        | H. B. TenEyck.              |
| South Orange.....                    | Essex.....      | 200             | 57                      | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | ...   | ...                       | ...                  | ...                       | ...                          | ...   | ...        | ...                          | ...       | David M. Ach                |
| Verona.....                          | Essex.....      | 490             | 1                       | 27.8                         | ...                       | 49      | 22   | -3     | 27   | 30                       | 2.01  | ...                       | 0.46                 | 6.8                       | 14                           | 6     | 11         | 14                           | w.        | Luther Davis.               |
| Woodcliff Lake.....                  | Bergen.....     | 100             | 9                       | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | §     | ...                       | ...                  | ...                       | 12                           | ...   | ...        | ...                          | ...       | Hackensack Water Co.        |
| New York, N. Y. ....                 | ...             | 365             | 57                      | 30.2                         | -0.7                      | 51      | 19   | -1     | 27   | 33                       | 1.95  | -1.84                     | 0.44                 | 5.5                       | 14                           | 8     | 10         | 13                           | nw.       | U. S. Weather Bureau.       |
| Means and extremes...                |                 | ...             | ...                     | 28.8                         | -0.8                      | 51      | 22   | -4     | 27   | 38                       | 2.18  | -1.57                     | 1.01                 | 8.2                       | 12                           | 12    | 7          | 12                           | nw.       |                             |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Belleplain.....                      | Cape May.....   | 30              | 33                      | 31.7 <sup>a</sup>            | -1.3                      | 69      | 22   | -1     | 27   | 44                       | 1.66  | -1.87                     | 0.40                 | 3.1                       | 10                           | ...   | ...        | ...                          | ...       | Thomas J. Durell.           |
| Bridgeton.....                       | Cumberland..... | 90              | 46                      | 32.2                         | -1.5                      | 61      | 22   | 4      | 27   | 35                       | 1.51  | -2.01                     | 0.53                 | 4.0                       | 7                            | 8     | 1          | 22                           | nw.       | Paul T. Kornman.            |
| Burlington.....                      | Burlington..... | 12              | 41                      | 30.7                         | -1.6                      | 49      | 22   | 3      | 27   | 28                       | 1.73  | -1.67                     | 0.64                 | 6.7                       | 12                           | 11    | 5          | 15                           | uw.       | Public Service Power Co.    |
| Clayton.....                         | Gloucester..... | 130             | 30                      | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | ...   | ...                       | ...                  | ...                       | ...                          | ...   | ...        | ...                          | ...       | John G. Reutter.            |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | ...   | ...                       | ...                  | ...                       | ...                          | ...   | ...        | ...                          | ...       | R. E. Montgomery.           |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | ...                          | ...                       | ...     | ...  | 0      | 27   | ...                      | 2.52  | -0.75                     | 0.75                 | 9.0                       | 12                           | 14    | 7          | 10                           | w.        | Charles Welsh.              |
| Imperialtown.....                    | Monmouth.....   | 115             | 37                      | 30.1 <sup>b</sup>            | -1.0                      | 50      | 30   | 1      | 27   | ...                      | 2.49  | -1.05                     | 1.10                 | ...                       | 11                           | ...   | ...        | ...                          | ...       | Frank M. Lawrence.          |
| Indian Mills.....                    | Burlington..... | 76              | 38                      | 31.4                         | -0.5                      | 54      | 22   | 3      | 27   | 44                       | 2.86  | -0.96                     | 0.96                 | 7.5                       | 13                           | 11    | 6          | 14                           | nw.       | James M. Armstrong.         |
| Lakewood.....                        | Ocean.....      | 54              | 23                      | 29.8                         | -1.5                      | 55      | 22   | 0      | 27   | 38                       | 2.17  | -1.51                     | 0.59                 | 5.5                       | 12                           | 12    | 4          | 15                           | nw.       | R. W. Holman.               |
| Moorestown.....                      | Burlington..... | 75              | 64                      | 31.0                         | +0.3                      | 52      | 30   | 2      | 27   | 33                       | 1.75  | -1.71                     | 0.40                 | 9.0                       | 10                           | 12    | 6          | 13                           | nw.       | John B. Warrick.            |
| Northfield.....                      | Atlantic.....   | 25              | 20                      | ...                          | ...                       | ...     | ...  | ...    | ...  | ...                      | 1.28  | -2.25                     | 0.30                 | 2.5                       | 8                            | ...   | ...        | ...                          | ...       | William L. Flick.           |
| Pleasantville.....                   | Atlantic.....   | 26              | 29                      | 30.6                         | ...                       | 70      | 22   | 2      | 27   | 35                       | 1.61  | -1.55                     | 0.38                 | ...                       | 10                           | 14    | 9          | 8                            | nw.       | N. J. Dept. Conservation.   |
| Riverton.....                        | Burlington..... | ...             | 1                       | 29.6                         | ...                       | 51      | 22   | 4      | 27   | 31                       | 2.02  | ...                       | 0.64                 | 7.0                       | 10                           | 14    | 3          | 14                           | n.        | Japanese Beetle Laboratory. |
| Runyon.....                          | Middlesex.....  | 18              | 3                       | 28.6                         | ...                       | 51      | 19   | -2     | 27   | 39                       | 3.32  | ...                       | 0.80                 | ...                       | 10                           | 11    | 8          | 12                           | w.        | N. J. Dept. Conservation.   |
| Trenton.....                         | Mercer.....     | 190             | 55                      | 30.1                         | -0.4                      | 52      | 22   | 2      | 27   | 31                       | 2.02  | -1.15                     | 0.63                 | 9.1                       | 12                           | 8     | 8          | 15                           | nw.       | U. S. Weather Bureau.       |
| Tuckerton.....                       | Ocean.....      | 23              | 34                      | ...                          | ...                       | 65      | 22   | 0      | 27   | ...                      | 2.46  | -1.17                     | 0.60                 | 6.0                       | 10                           | 15    | 11         | 5                            | w.        | Mrs. George O. Hickman.     |
| Vineland.....                        | Cumberland..... | 109             | 58                      | ...                          | ...                       | ...     | ...  | 3      | 27   | ...                      | ...   | ...                       | ...                  | ...                       | ...                          | ...   | ...        | ...                          | ...       | H. C. Himes                 |
| Philadelphia, Pa. ....               | ...             | 117             | 56                      | 32.6                         | 0.0                       | 56      | 22   | 4      | 27   | 35                       | 1.88  | -1.53                     | 0.52                 | 5.5                       | 11                           | 8     | 9          | 14                           | nw.       | U. S. Weather Bureau.       |
| Means and extremes...                |                 | ...             | ...                     | 30.5                         | -0.9                      | 70      | 22   | -2     | 27   | 44                       | 2.10  | -1.47                     | 1.10                 | 6.3                       | 10                           | 12    | 6          | 13                           | nw.       |                             |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                             |
| Asbury Park.....                     | Monmouth.....   | 22              | 38                      | 30.4 <sup>a</sup>            | -1.8                      | 55      | 22   | 5      | 27   | 31                       | 2.26  | -1.31                     | 0.60                 | 6.5                       | 11                           | 17    | 8          | 6                            | nw.       | Information Bureau.         |
| Atlantic City.....                   | Atlantic.....   | 16              | 54                      | 32.6                         | +0.1                      | 58      | 22   | 5      | 27   | 29                       | 1.19  | -2.21                     | 0.28                 | 2.8                       | 9                            | 8     | 8          | 15                           | nw.       | U. S. Weather Bureau.       |
| Cape May City.....                   | Cape May.....   | 17              | 43                      | 32.6                         | -1.5                      | 65      | 22   | 6      | 27   | 27                       | 1.21  | -2.16                     | 0.41                 | 4.2                       | 7                            | ...   | ...        | ...                          | nw.       | U. S. Weather Bureau.       |
| Sandy Hook.....                      | Monmouth.....   | 22              | 29                      | 29.9                         | -0.9                      | 45      | 4    | 4      | 27   | 29                       | 1.98  | -1.87                     | 0.43                 | 6.7                       | 13                           | 9     | 7          | 15                           | w.        | U. S. Weather Bureau.       |
| Means and extremes...                |                 | ...             | ...                     | 31.4                         | -1.0                      | 65      | 22   | 4      | 27   | 31                       | 1.66  | -1.89                     | 0.60                 | 5.0                       | 10                           | 11    | 8          | 12                           | nw.       |                             |
| For the State.....                   |                 | ...             | ...                     | 29.2                         | -0.7                      | 70      | 22   | -12    | 27   | 44                       | 2.22  | -1.39                     | 1.44                 | 7.9                       | 11                           | 11    | 7          | 13                           | nw.       |                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for January, 1927

| Stations                            | Drainage Basin  | Day of month |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      | Total |
|-------------------------------------|-----------------|--------------|-----|-----|-----|-----|-----|---|---|-----|-----|-----|----|----|-----|------|------|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|-----|-----|------|-------|
|                                     |                 | 1            | 2   | 3   | 4   | 5   | 6   | 7 | 8 | 9   | 10  | 11  | 12 | 13 | 14  | 15   | 16   | 17 | 18 | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26 | 27 | 28  | 29  | 30  | 31   |       |
| The Highlands and Kittatinny Valley |                 |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Belvidere.....                      | Delaware.....   | .12          |     |     | .22 |     |     |   |   |     |     |     |    |    | .38 | .60  |      |    |    | .02 | .38 | .35 | .15 | .25 | .11 |     |    |    |     | .40 | .04 | 3.02 |       |
| Charlotteburg.....                  | Passaic.....    |              |     |     | .23 | T.  |     |   |   |     |     |     |    |    | .32 | *    | .69  |    |    | .12 | .50 | .36 | .15 | .25 |     |     |    |    | .29 | .30 |     | 3.21 |       |
| Culvers Lake.....                   | Delaware.....   | .03          |     | T.  | .38 |     | .02 |   |   |     |     | T.  |    |    | .23 | .30  | .07  |    |    | .08 | .09 | .41 | .18 | .28 | T.  |     |    |    |     | .18 | .12 | 2.37 |       |
| Dover.....                          | Passaic.....    |              |     |     | .22 |     |     |   |   |     |     |     |    |    | .40 | 1.20 |      |    |    | T.  | .06 | .22 | .13 | .12 | .26 |     |    |    |     | T.  | .35 | .02  | 2.96  |
| Layton.....                         | Delaware.....   |              |     |     | .36 |     |     |   |   |     |     | T.  |    |    | .19 | .70  | .40  |    |    | T.  | .05 | .18 | .09 | *   | .20 |     |    |    | *   | .12 |     | 2.29 |       |
| Newton.....                         | Delaware.....   | .04          |     |     | .21 | T.  | T.  |   |   |     |     | T.  |    |    | .30 | .95  |      |    |    | .05 | .06 | .32 | .14 | .13 | T.  |     |    |    | .03 | .34 |     | 2.57 |       |
| Phillipsburg.....                   | do.....         | T.           |     |     | .16 | T.  | T.  |   |   |     |     | T.  |    |    | .35 | .58  |      |    |    | .05 | .32 | .18 | .14 | .38 |     |     |    |    | .15 | .14 |     | 2.45 |       |
| Sussex.....                         | Hudson.....     | .06          |     |     | .30 |     | .02 |   |   |     |     | T.  |    |    | .32 | .42  | 1.02 |    |    |     | .07 | .51 | .25 | .06 | .04 |     |    |    |     | *   | .24 |      | 3.31  |
| The Red Sandstone Plain.            |                 |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Bergen Point**.....                 | Coast.....      | T.           |     |     | .11 | T.  |     |   |   |     |     | T.  |    |    | .49 | .34  | .04  |    |    | T.  | .01 | .27 | .14 | .04 | .29 | T.  |    |    |     | T.  | .35 | .02  | 2.10  |
| Boonton   .....                     | Passaic.....    | .06          |     |     | T.  | .16 | T.  |   |   |     |     |     |    |    | .11 | .17  | .28  |    |    | .08 | T.  | .24 | .04 | .04 | .20 |     |    |    |     | .26 | .02 |      | 1.66  |
| Chatham   .....                     | do.....         | .08          |     | T.  | T.  | .24 | T.  |   |   |     |     | T.  |    |    | .09 | .37  | .64  |    |    | .14 | .02 | .44 | .06 | .02 | .03 |     |    |    |     | .22 | .09 |      | 2.44  |
| Elizabeth.....                      | Coast.....      | \$           |     |     | \$  | .24 |     |   |   |     |     |     |    |    | .46 | .20  | .70  |    |    | *   | *   | .45 | .31 | .05 | .09 | .15 |    |    |     | .31 |     | \$   |       |
| Flemington.....                     | Raritan.....    | .05          |     |     | .14 |     |     |   |   |     |     | T.  |    |    | .39 | .40  | .20  |    |    | .21 | .11 | .46 | .08 | .11 | .29 |     |    |    |     | T.  | .33 | .05  | 2.82  |
| Highwood.....                       | Hackensack..... | .15          |     |     | .01 |     | T.  |   |   |     |     | .04 |    |    | .41 | .35  | .07  |    |    | T.  | *   | *   | .25 | .33 |     |     |    |    |     | T.  | .32 | .08  | 2.01  |
| Jersey City.....                    | Coast.....      |              |     | T.  | .08 | T.  | T.  |   |   |     |     | .03 |    |    | .45 | .38  | .09  |    |    | T.  |     | .27 | .15 | .02 | .24 |     |    |    |     | T.  | .32 | .03  | 2.06  |
| Lambertville.....                   | Delaware.....   | .11          |     |     | .14 |     | T.  |   |   |     |     | T.  | T. |    | .39 | *    | .92  |    |    | T.  | .01 | .10 | .25 | .11 | .33 | .04 |    |    |     | .03 | .26 | T.   | 2.69  |
| Little Falls.                       | Passaic.....    | .08          |     |     | .04 | .05 | T.  |   |   |     |     |     |    |    | .15 | .13  | .28  |    |    | .05 | .01 | .32 | .03 | .05 | .30 |     |    |    |     | .38 | .02 | .02  | 1.84  |
| New Brunswick.....                  | Raritan.....    | .11          |     |     | .03 |     |     |   |   |     |     | T.  |    |    | .49 | .26  | .09  |    |    | T.  | .06 | .25 | .11 | .14 | .03 |     |    |    |     | T.  | .33 | .02  | 1.97  |
| New Milford.**.....                 | Hackensack..... | .11          |     |     | .07 |     |     |   |   |     |     |     |    |    | .34 | \$   | \$   |    |    |     | .15 | .09 | .06 | .01 | .27 |     |    |    |     | T.  | .28 |      | \$    |
| Paterson.....                       | Passaic.....    |              |     |     | .16 |     |     |   |   |     |     | T.  |    |    | .29 | .25  | .09  |    |    | .02 | .09 | .23 | .08 |     |     |     |    |    |     | T.  | .32 |      | 1.53  |
| Plainfield.....                     | Raritan.....    |              |     |     | .08 | T.  |     |   |   |     |     | T.  |    |    | .39 | .91  | .10  |    |    | .02 | .03 | *   | .40 | .08 | .21 |     |    |    |     | T.  | .33 | .03  | 2.58  |
| Ridgefield.....                     | Hackensack..... | .13          |     | T.  | .10 |     | T.  |   |   |     |     | .03 |    |    | .42 | *    | .50  |    |    | .02 |     | T.  | .18 | .02 | .25 |     |    |    |     | T.  | .33 | .04  | 2.02  |
| Somerville.....                     | Raritan.....    | .08          |     |     | .11 |     | T.  |   |   |     |     |     |    |    | .33 | .50  | .60  |    |    | .05 | .08 | .35 |     | .08 | .20 |     |    |    |     | .02 | .32 | T.   | 2.72  |
| South Orange.....                   | Rahway.....     |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Verona**.....                       | Passaic.....    | .03          |     |     | .08 | .02 |     |   |   |     |     | T.  |    |    | .27 | .44  | .02  |    |    | .05 |     | .20 | .17 | .08 | .27 |     |    |    |     | .10 | .22 | .06  | 2.01  |
| Woodcliff Lake**.....               | Hackensack..... |              |     |     | .11 |     |     |   |   |     |     |     |    |    | .31 | .09  | \$   |    |    | .06 | .03 | .19 | .20 | .24 | .20 |     |    |    |     |     | .35 | .06  | \$    |
| New York, N. Y.**.....              | Coast.....      | .03          |     | T.  | .09 | T.  | T.  |   |   |     |     | .03 |    |    | .44 | .32  | .03  |    |    | T.  | .04 | .26 | .11 | .03 | .22 |     |    |    |     | .02 | .30 | .03  | 1.95  |
| The Southern Interior.              |                 |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Belleplain.....                     | Tuckahoe.....   | .01          |     | T.  | .40 |     |     |   |   | .01 |     |     |    |    | .23 | .30  |      |    |    |     | .02 |     | .06 |     | .11 |     |    |    |     | .26 | .26 |      | 1.66  |
| Bridgeton.....                      | Coast.....      |              |     | T.  | .13 |     |     |   |   | T.  |     |     |    |    | .29 | .40  |      |    |    | T.  |     | .06 | *   | *   | .10 |     |    |    |     |     | .53 |      | 1.51  |
| Burlington.....                     | Delaware.....   | .06          |     |     | .05 |     |     |   |   |     |     |     |    |    | .37 | .45  | .19  |    |    |     | .06 | .21 | .02 | .11 | .02 |     |    |    |     | .15 | .04 |      | 1.73  |
| Clayton.....                        | Delaware.....   |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Hammononton.....                    | Mullica.....    |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Hightstown.....                     | Raritan.....    | .15          |     |     | .04 |     |     |   |   |     |     |     |    |    | .42 | *    | .75  |    |    |     | .13 | .04 | .22 | .04 | *   | .27 |    |    |     | .42 | .04 |      | 2.52  |
| Imlaystown.....                     | Delaware.....   |              |     |     | .14 |     |     |   |   |     |     |     |    |    | .42 | .80  | .30  |    |    |     | .04 | .19 | .04 | *   |     |     |    |    |     | .50 | .04 | .02  | 2.49  |
| Indian Mills.....                   | Mullica.....    | T.           | .05 | .10 | .09 | T.  | T.  |   |   |     |     | T.  |    |    | .32 | .81  | .15  |    |    |     | .06 | .15 | .05 | .16 | .12 |     |    |    |     | .50 | .30 |      | 2.86  |
| Lakewood.....                       | Metedeconk..... | .06          |     |     | .40 | T.  | T.  |   |   |     |     |     |    |    | .35 | .44  | .15  |    |    | .02 | T.  | .17 | .10 | .10 | .10 |     |    |    |     | .20 | .08 |      | 2.17  |
| Moorestown.....                     | Delaware.....   | .01          |     |     | .08 |     |     |   |   |     |     |     |    |    | .37 | .40  |      |    |    |     | .12 | .20 | .02 | .17 |     |     |    |    |     | .30 | .08 |      | 1.75  |
| Northfield.....                     | Coast.....      |              |     |     | .21 |     |     |   |   |     |     | T.  |    |    | .30 | .20  |      |    |    |     | .03 | .03 | .08 | .04 |     |     |    |    |     | .25 | .17 |      | 1.28  |
| Pleasantville   .....               | Coast.....      |              | T.  |     | T.  | .26 |     |   |   | .01 |     |     |    |    | .33 | .13  |      |    |    |     | T.  | .04 | .01 | .22 |     |     |    |    |     | .38 | .03 | .20  | 1.61  |
| Riverton   .....                    | Delaware.....   | .15          |     |     | .04 |     |     |   |   |     |     |     |    |    | .20 | .19  | .45  |    |    | T.  | .12 | .24 | T.  |     | .22 | T.  |    |    |     | .36 | .05 |      | 2.02  |
| Runyon.....                         | Coast.....      | .42          |     |     | .08 |     |     |   |   |     |     |     |    |    | .43 | .80  | .50  |    |    |     | .11 | .26 | .08 | .12 |     |     |    |    |     | *   | .52 |      | 3.32  |
| Trenton**.....                      | Delaware.....   | .02          |     | T.  | .07 | T.  |     |   |   | T.  |     |     |    |    | .42 | .62  | .01  |    |    | T.  | T.  | .14 | .07 | .02 | .26 |     |    |    |     | .08 | .29 | .02  | 2.02  |
| Tuckerton.....                      | Coast.....      |              |     |     | .40 |     |     |   |   |     | .10 |     |    |    | .40 | .60  |      |    |    |     |     | .15 | .05 | .06 | .15 |     |    |    |     | .30 | .25 |      | 2.46  |
| Vineland.....                       | Maurice.....    |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Phila., Pa.**.....                  | Delaware.....   |              |     | T.  | .06 | T.  |     |   |   |     |     | T.  |    |    | .37 | .52  |      |    |    | .05 | .22 | .09 | .02 | .22 |     |     |    |    |     | .13 | .15 | .05  | 1.88  |
| The Sea Coast.                      |                 |              |     |     |     |     |     |   |   |     |     |     |    |    |     |      |      |    |    |     |     |     |     |     |     |     |    |    |     |     |     |      |       |
| Asbury Park.....                    | Coast.....      | .03          |     |     | .50 |     |     |   |   |     | .05 |     |    |    | .45 | .60  |      |    |    |     |     | .05 | .08 | .30 |     |     |    |    |     | .20 |     |      | 2.26  |
| Atlantic City.....                  | do.....         |              |     |     | .14 |     |     |   |   | .01 |     |     |    |    | .25 | .23  |      |    |    | T.  | T.  | .01 | .01 | .15 |     |     |    |    |     | T.  | .28 | .11  | 1.19  |
| Cape May City.....                  | do.....         |              |     | .01 | .17 |     |     |   |   |     |     |     |    |    | T.  | .41  | T.   |    |    |     | T.  | .02 |     | .27 |     |     |    |    |     | T.  | .19 | .14  | 1.21  |
| Sandy Hook***.....                  | do.....         | T.           |     |     | .22 |     | T.  |   |   |     | .01 |     |    |    | .41 | .37  | .06  |    |    | T.  | .02 | .19 | .11 | .03 | .25 |     |    |    |     | .01 | .28 | .02  | 1.98  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 30.16        | 30.98   | 27   | 29.41  | 4    | 17.8            | 42             | n.        | 26   | 81                                     | 71                                        | 75                                      | 50            |
| New York, N. Y.....   | 30.15        | 31.01   | 27   | 29.37  | 4    | 19.2            | 62             | n.w.      | 26   | 73                                     | 62                                        | 68                                      | 55            |
| Philadelphia, Pa..... | 30.18        | 31.02   | 27   | 29.42  | 4    | 10.2            | 38             | n.        | 26   | 75                                     | 71                                        | 74                                      | 38            |
| Ridgefield.....       | 30.15        | 31.01   | 27   | 29.37  | 4    |                 |                |           |      |                                        |                                           |                                         |               |
| Riverton.....         |              |         |      |        |      |                 |                |           |      | 80                                     | 69                                        | 74                                      |               |
| Sandy Hook.....       | 30.14        | 30.99   | 27   | 29.35  | 4    | 16.7            | 54             | n.w.      | 16   | 76                                     | 72                                        | 72                                      | 46            |
| Trenton.....          | 30.15        | 30.98   | 27   | 29.38  | 4    | 11.0            | 41             | n.        | 26   | 74                                     | 63                                        | 70                                      | 43            |
| Verona.....           | 30.15        | 31.03   | 27   | 29.35  | 4    | 7.2             | 44             | w.        | 16   | 77                                     | 72                                        | 74                                      |               |



| Stations                                    | 1       | 2  | 3  | 4     | 5  | 6  | 7  | 8     | 9  | 10 | 11 | 12    | 13    | 14 | 15 | 16 | 17    | 18    | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27    | 28    | 29    | 30    | 31    | Mean |      |
|---------------------------------------------|---------|----|----|-------|----|----|----|-------|----|----|----|-------|-------|----|----|----|-------|-------|----|----|----|----|----|----|----|----|-------|-------|-------|-------|-------|------|------|
| <i>The Highlands and Kittatinny Valley.</i> |         |    |    |       |    |    |    |       |    |    |    |       |       |    |    |    |       |       |    |    |    |    |    |    |    |    |       |       |       |       |       |      |      |
| Belvidere.....                              | Maximum | 38 | 29 | 39    | 39 | 40 | 35 | 30    | 29 | 24 | 28 | 24    | 35    | 36 | 38 | 35 | 21    | 32    | 41 | 44 | 43 | 39 | 43 | 39 | 35 | 28 | 28    | 43    | 43    | 40    | 41    | 35.2 |      |
|                                             | Minimum | 23 | 12 | 23    | 28 | 32 | 24 | 18    | 10 | 7  | 12 | 10    | 12    | 14 | 30 | 8  | 4     | 8     | 13 | 32 | 33 | 34 | 32 | 23 | 22 | 18 | 6     | -2    | 11    | 25    | 29    | 31   | 18.8 |
| Charlotteburg.....                          | Maximum | 33 | 36 | 34    | 38 | 36 | 32 | 25    | 25 | 24 | 27 | 24    | 34    | 36 | 40 | 36 | 17    | 34    | 46 | 42 | 45 | 39 | 50 | 39 | 34 | 40 | 39    | 29    | 27    | 40    | 48    | 38   | 35.1 |
|                                             | Minimum | 20 | 12 | 20    | 25 | 32 | 20 | 14    | 8  | 3  | 6  | 8     | 11    | 5  | 28 | 11 | 1     | 13    | 18 | 33 | 34 | 34 | 35 | 25 | 18 | 16 | 5     | -7    | 4     | 22    | 28    | 37   | 17.2 |
| Dover.....                                  | Maximum | 37 | 27 | 38    | 38 | 37 | 30 | 28    | 29 | 25 | 28 | ..... | 31    | 34 | 40 | 28 | 17    | ..... | 44 | 45 | 43 | 38 | 47 | 31 | 34 | 39 | ..... | 20    | 30    | 47    | 42    | 42   | 34.6 |
|                                             | Minimum | 18 | 14 | 24    | 29 | 30 | 23 | 12    | 10 | 4  | 11 | 8     | 14    | 11 | 28 | 4  | 7     | 21    | 34 | 37 | 36 | 31 | 23 | 20 | 20 | -1 | -4    | 9     | 29    | 31    | 29    | 18.3 |      |
| Layton.....                                 | Maximum | 35 | 28 | 34    | 35 | 38 | 30 | 28    | 28 | 24 | 30 | 18    | 30    | 31 | 38 | 36 | 17    | 35    | 41 | 46 | 41 | 36 | 41 | 34 | 33 | 42 | 30    | 27    | 25    | 48    | 40    | 33.4 |      |
|                                             | Minimum | 28 | 10 | 18    | 27 | 27 | 16 | 10    | 10 | -7 | -3 | 3     | 16    | 4  | 24 | 4  | 4     | 11    | 19 | 34 | 34 | 33 | 33 | 19 | 19 | 1  | 4     | -8    | 0     | 22    | 22    | 32   | 15.0 |
| Newton.....                                 | Maximum | 38 | 29 | 36    | 39 | 39 | 32 | ..... | 29 | 20 | 23 | 19    | ..... | 33 | 39 | 33 | 34    | ..... | 44 | 42 | 37 | 46 | 38 | 37 | 40 | 36 | 21    | 29    | 40    | 46    | 45    | 35.0 |      |
|                                             | Minimum | 20 | 12 | 22    | 28 | 30 | 21 | 13    | 10 | 5  | 9  | 4     | ..... | 12 | 31 | 3  | 12    | ..... | 32 | 34 | 32 | 33 | 20 | 18 | 12 | 3  | -6    | 6     | 29    | 26    | 38    | 18.0 |      |
| Phillipsburg.....                           | Maximum | 40 | 31 | ..... | 40 | 45 | 39 | 34    | 29 | 32 | 27 | 32    | 32    | 40 | 38 | 30 | 20    | 35    | 40 | 44 | 43 | 44 | 44 | 34 | 29 | 39 | 34    | ..... | 31    | 44    | 44    | 36.3 |      |
|                                             | Minimum | 21 | 17 | 28    | 32 | 32 | 27 | 15    | 12 | 18 | 15 | 17    | 16    | 16 | 29 | 9  | 11    | 20    | 14 | 35 | 35 | 32 | 27 | 25 | 24 | 13 | 1     | 15    | 31    | 33    | 34    | 22.2 |      |
| Sussex.....                                 | Maximum | 36 | 26 | 36    | 39 | 38 | 33 | 29    | 26 | 21 | 23 | 21    | 34    | 33 | 38 | 37 | ..... | 33    | 44 | 44 | 41 | 38 | 42 | 39 | 39 | 42 | ..... | 46    | ..... | ..... | ..... | 35.1 |      |
|                                             | Minimum | 23 | 5  | 22    | 27 | 32 | 24 | 15    | 10 | 2  | 2  | 8     | 6     | 12 | 8  | 26 | 5     | 5     | 13 | 20 | 33 | 35 | 34 | 34 | 20 | 18 | 10    | 13    | ..... | 24    | ..... | 17.9 |      |
| <i>The Red Sandstone Plain.</i>             |         |    |    |       |    |    |    |       |    |    |    |       |       |    |    |    |       |       |    |    |    |    |    |    |    |    |       |       |       |       |       |      |      |
| Bergen Point.....                           | Maximum | 40 | 29 | 40    | 45 | 44 | 38 | 30    | 29 | 30 | 28 | 23    | 35    | 49 | 43 | 37 | 22    | 35    | 43 | 50 | 45 | 41 | 48 | 40 | 34 | 40 | 35    | 35    | 34    | 49    | 49    | 37.9 |      |
|                                             | Minimum | 27 | 19 | 28    | 32 | 38 | 28 | 19    | 14 | 13 | 17 | 14    | 18    | 22 | 37 | 9  | 8     | 15    | 31 | 38 | 38 | 38 | 26 | 24 | 25 | 10 | -2    | 18    | 30    | 32    | 35    | 37.9 |      |
| Boonton§§.....                              | Maximum | 39 | 29 | 38    | 39 | 38 | 31 | 24    | 29 | 27 | 30 | 24    | 33    |    |    |    |       |       |    |    |    |    |    |    |    |    |       |       |       |       |       |      |      |

<sup>a</sup>, <sup>b</sup>, <sup>c</sup>, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record to the preceding day, on which it almost always occurs.

[illegible]

Note: Evaporation determined by measuring amount returned to pan to maintain standard level, less precipitation record.  
 \*\*Observations taken in the morning, and entered on preceding day.

\* Measurement included in next following



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXII.

FEBRUARY, 1927.

### GENERAL SUMMARY.

The weather during February in New Jersey was more than usually pleasant and mild with remarkable persistence. There were four pronounced warm periods lasting from four to six days each, and the intervening periods were not more than 3° or 4° colder than normal. February 1925 was slightly warmer than this month and was accompanied by the least February snowfall of record. In 1926 the February snowfall record was the greatest with one exception, while this year the amount of snow was subnormal, except possibly in extreme northern localities.

The frequency of stormy weather was slightly greater than usual, although there was a deficiency of precipitation. The storm of the 19-20th was severe and caused much damage inland by destruction of telephone and other electrical service, by glaze particularly, and by destruction of property by wind and wave along shore and at sea. The coast from Sandy Hook to Cape May was savagely battered by an unusually high storm wave driven by gales, which exceeded 80 miles per hour from the northeast. Foundations were undermined and buildings wrecked. The center of the storm was some distance to the eastward off the coast. A storm of the same type moved along shore on the 26th, but was much less severe. A sleet and glaze storm on the 5th caused moderate inconveniences and damage. The month closed with normally pleasant conditions.

Storm warnings were displayed along shore on the 13th, 16th, 19th, 20th, 25th, 26th and 27th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 36.1°, which was 6.5° above normal. The highest temperature was 66° at Belleplain and Vineland on the 17th, and the lowest 4° at Culvers Lake on the 12th. The greatest daily range of temperature was 38° at Pleasantville on the 17th. The highest monthly mean temperature was 40.6° at Tuckerton and Vineland, and the lowest, 31.6° at Layton.

The temperature departure from the normal for the year 1927, to date, by sections, is: The Highlands, +3.6°; Red Sandstone Plain, +2.4°; Southern Interior, +3.0°; Sea Coast, +2.5°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 39 stations, was 3.12 inches, which was 0.43 inch below normal. The average total snowfall at eighteen selected stations was 5.1 inches, which was 1.5 inches below normal.

The greatest monthly precipitation was 4.55 inches, at Hightstown, and the least, 2.18 inches at Runyon. The greatest amount of precipitation in any 24 consecutive hours was 1.86 inches at Atlantic City on the 19-20th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -1.10

inches; Red Sandstone Plain, -2.52 inches; Southern Interior, -1.58 inches; Sea Coast, -2.03 inches.

### WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 14 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 84 miles per hour from the northeast at Atlantic City on the 20th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 10, which was 1 less than normal; partly cloudy, 8, or normal; cloudy, 10, or 1 more than normal. The per cent of possible sunshine was 54, which was 2 per cent below normal.

### MISCELLANEOUS.

Atmospheric pressure, reduced to sea level, was 30.02 inches, which was 0.08 inch below normal. The highest reading was 30.46 inches at Trenton and Atlantic City on the 1st, and the lowest, 29.49 inches at Sandy Hook on the 26th.

The mean stage of the Delaware River at Phillipsburg was 3.7 feet, and the highest stage, 6.5 feet on the 27th. At Trenton the mean daily stage was 2.7 feet, which was 0.6 foot below normal. The highest stage was 4.3 feet on the 27th. Sleet fell on the 5th, 6th, 13th, 14th, 16th, 18th, 19th and 20th. Dense fog occurred on the 6th, 15th, 17th, 18th and 21st. Solar halos were observed on the 1st, 13th, 16th, 22d, 23d, 24th and 25th. Thunderstorms occurred on the 16th, 17th, 18th and 25th.

### COMPARATIVE DATA FOR FEBRUARY

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 23.9        | 54      | -2     | 3.93          | 5.85      | 1.44  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 28.9        | 64      | -10    | 5.42          | 8.00      | 4.13  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 33.9        | 69      | 6      | 5.24          | 6.74      | 4.13  | .....    | .....       | .....         | 13     | 13                     |
| 1888..... | 30.6        | 60      | -5     | 3.53          | 6.01      | 2.04  | .....    | .....       | .....         | 9      | 8                      |
| 1889..... | 27.7        | 53      | -3     | 2.49          | 3.80      | 1.65  | .....    | .....       | .....         | 9      | 8                      |
| 1890..... | 39.9        | 76      | 14     | 4.17          | 5.32      | 2.43  | .....    | .....       | .....         | 12     | 10                     |
| 1891..... | 38.0        | 71      | 1      | 5.11          | 7.20      | 3.70  | .....    | 6           | 9             | 13     | 14                     |
| 1892..... | 33.6        | 58      | 7      | 1.63          | 3.62      | 0.67  | .....    | 7           | 9             | 13     | 7                      |
| 1893..... | 30.1        | 63      | -1     | 5.73          | 8.90      | 3.14  | .....    | 7           | 8             | 13     | 11                     |
| 1894..... | 29.7        | 62      | -11    | 4.42          | 6.17      | 3.25  | .....    | 9           | 8             | 11     | 11                     |
| 1895..... | 23.6        | 57      | -12    | 1.28          | 2.34      | 0.66  | 11.6     | 13          | 9             | 6      | 5                      |
| 1896..... | 32.1        | 62      | -12    | 6.77          | 10.06     | 4.82  | 6.7      | 9           | 9             | 11     | 12                     |
| 1897..... | 32.5        | 59      | -6     | 3.61          | 6.37      | 2.38  | 8.0      | 8           | 10            | 10     | 8                      |
| 1898..... | 32.7        | 65      | -15    | 3.48          | 5.45      | 1.55  | 2.0      | 12          | 7             | 9      | 9                      |
| 1899..... | 25.8        | 60      | -17    | 6.06          | 8.77      | 3.78  | 31.3     | 10          | 6             | 12     | 15                     |
| 1900..... | 31.0        | 69      | -6     | 5.30          | 7.88      | 3.27  | 9.6      | 9           | 9             | 10     | 10                     |
| 1901..... | 25.4        | 52      | -6     | 0.94          | 1.66      | 0.69  | 4.9      | 15          | 9             | 4      | 4                      |
| 1902..... | 27.4        | 62      | -7     | 6.24          | 8.44      | 4.29  | 16.5     | 12          | 6             | 10     | 9                      |
| 1903..... | 33.7        | 70      | -16    | 4.87          | 6.60      | 3.74  | 6.7      | 12          | 8             | 8      | 10                     |
| 1904..... | 24.8        | 65      | -16    | 2.45          | 3.09      | 1.36  | 5.6      | 13          | 8             | 8      | 8                      |
| 1905..... | 23.4        | 53      | -18    | 2.53          | 3.96      | 0.70  | 7.3      | 14          | 7             | 7      | 7                      |
| 1906..... | 30.9        | 64      | -12    | 2.58          | 3.85      | 1.77  | 5.4      | 14          | 7             | 7      | 7                      |
| 1907..... | 23.6        | 55      | -22    | 2.67          | 3.90      | 1.82  | 20.8     | 14          | 7             | 7      | 8                      |
| 1908..... | 28.1        | 65      | -17    | 4.79          | 7.44      | 2.85  | 11.9     | 10          | 10            | 9      | 9                      |
| 1909..... | 37.8        | 72      | -2     | 4.96          | 6.78      | 3.55  | 2.3      | 6           | 10            | 12     | 12                     |
| 1910..... | 30.5        | 69      | -11    | 3.08          | 4.81      | 1.06  | 6.2      | 10          | 9             | 9      | 10                     |
| 1911..... | 30.9        | 67      | -12    | 2.78          | 4.06      | 1.76  | 11.2     | 8           | 7             | 13     | 11                     |
| 1912..... | 27.7        | 61      | -14    | 2.49          | 3.12      | 1.68  | 2.8      | 11          | 12            | 6      | 5                      |
| 1913..... | 30.6        | 70      | -5     | 2.49          | 3.21      | 1.48  | 3.5      | 16          | 6             | 6      | 7                      |
| 1914..... | 25.9        | 67      | -12    | 2.85          | 4.94      | 1.89  | 15.1     | 12          | 7             | 9      | 9                      |
| 1915..... | 35.7        | 75      | -7     | 5.37          | 7.28      | 2.97  | 3.5      | 11          | 6             | 11     | 8                      |
| 1916..... | 28.1        | 63      | -18    | 4.21          | 6.17      | 2.84  | 11.4     | 10          | 6             | 13     | 11                     |
| 1917..... | 28.1        | 62      | -19    | 1.95          | 2.90      | 0.92  | 8.3      | 10          | 9             | 9      | 11                     |
| 1918..... | 29.0        | 67      | -23    | 2.08          | 3.41      | 1.03  | 2.6      | 12          | 8             | 8      | 7                      |
| 1919..... | 33.6        | 65      | 4      | 3.39          | 6.48      | 1.37  | 1.2      | 15          | 4             | 9      | 10                     |
| 1920..... | 27.9        | 54      | -17    | 4.20          | 7.20      | 2.39  | 20.0     | 11          | 8             | 10     | 11                     |
| 1921..... | 34.0        | 71      | -5     | 3.81          | 5.82      | 2.58  | 13.6     | 10          | 8             | 10     | 10                     |
| 1922..... | 33.6        | 73      | -10    | 2.94          | 4.60      | 1.80  | 8.5      | 10          | 8             | 10     | 10                     |
| 1923..... | 26.1        | 56      | -12    | 2.58          | 3.74      | 1.51  | 13.8     | 10          | 8             | 10     | 12                     |
| 1924..... | 28.9        | 62      | -3     | 4.10          | 6.11      | 2.45  | 11.9     | 13          | 5             | 11     | 9                      |
| 1925..... | 37.3        | 72      | -1     | 2.23          | 4.64      | 1.18  | 0.7      | 12          | 6             | 10     | 7                      |
| 1926..... | 29.4        | 57      | -11    | 4.54          | 6.30      | 2.86  | 21.2     | 9           | 5             | 14     | 11                     |
| 1927..... | 36.1        | 66      | 4      | 3.12          | 4.55      | 2.18  | 5.1      | 10          | 8             | 10     | 11                     |



## Climatological Data for February, 1927

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      |                      | Precipitation, in inches |                           |                      |                           | No. of days                  |       |            |        | Prevailing direction of wind | Observers                                                                                                                   |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|--------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy | Cloudy |                              |                                                                                                                             |
|                                      |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                             |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                             |
| Belvidere.....                       | Warren.....     | 289             | 36                      | 34.3                         | +7.2                      | 58      | 24   | 17     | 20   | 34                   | 3.07                     | -0.77                     | 0.70                 | 15.5                      | 10                           | 14    | 5          | 9      | .....                        | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                           |
| Charlotteburg II.....                | Passaic.....    | 719             | 35                      | 32.0                         | +6.4                      | 54      | 23   | 15     | 11   | 28                   | 3.26                     | -0.76                     | 0.84                 | 10.5                      | 12                           | 3     | 6          | 19     | e.                           |                                                                                                                             |
| Culvers Lake II.....                 | Sussex.....     | 848             | 26                      |                              |                           |         |      |        | 12   |                      | 2.98                     | -0.08                     | 0.86                 | 16.7                      | 12                           | 11    | 7          | 10     | e.                           |                                                                                                                             |
| Dover.....                           | Morris.....     | 600             | 43                      | 33.4 <sup>b</sup>            | +7.2                      | 54      | 24   | 19     | 51   | 25                   | 2.37                     | -1.66                     | 0.70                 | 9.0                       | 10                           | 3     | 17         | 8      | .....                        |                                                                                                                             |
| Layton.....                          | Sussex.....     | 480             | 26                      | 31.6                         | +8.0                      | 55      | 24   | 10     | 12   | 36                   | 4.39                     | +1.65                     | 1.27                 | 16.0                      | 11                           | 8     | 4          | 16     | w.                           | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                       |
| Newton.....                          | Sussex.....     | 769             | 43                      | 32.9 <sup>b</sup>            | +6.4                      | 55      | 24   | 14     | 20   | 25                   | 2.50                     | -1.06                     | 0.70                 | 15.8                      | 12                           | 7     | 11         | 10     | sw.                          |                                                                                                                             |
| Phillipsburg.....                    | Warren.....     | 363             | 44                      | 35.8                         | +7.9                      | 56      | 17   | 21     | 20   | 25                   | 3.02                     | -0.62                     | 0.88                 | 14.1                      | 11                           | 16    | 3          | 9      | .....                        |                                                                                                                             |
| Sussex.....                          | Sussex.....     | 442             | 32                      | 32.4 <sup>a</sup>            | +7.0                      | 57      | 24   | 13     | 12   | 32                   | 3.97                     | +0.59                     |                      | 18.1                      | 13                           | 6     | 6          | 16     | nw                           |                                                                                                                             |
| Means and extremes.....              |                 |                 |                         | 33.2                         | +7.2                      | 58      | 24   | 4      | 12   | 36                   | 3.20                     | -0.34                     | 1.27                 | 14.5                      | 11                           | 9     | 7          | 12     | e.                           |                                                                                                                             |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                             |
| Bergen Point III.....                | Hudson.....     | 37              | 30                      | 36.6 <sup>b</sup>            | +7.2                      | 59      | 24   | 22     | 201  |                      | 3.40                     | -0.58                     | 1.27                 | 4.0                       | 7                            | 6     | 15         | 7      | sw.                          | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                            |
| Boonton.....                         | Morris.....     | 400             | 37                      | 31.8                         | +4.7                      | 55      | 24   | 17     | 81   | 30                   | 2.23                     | -1.74                     | 0.55                 |                           | 11                           | 14    | 1          | 13     | ne.                          |                                                                                                                             |
| Chatham.....                         | Morris.....     | 185             | 23                      |                              |                           |         |      |        |      |                      | 2.27                     | -1.16                     | 0.59                 |                           | 14                           | 18    | 5          | 5      | .....                        |                                                                                                                             |
| Elizabeth.....                       | Union.....      | 45              | 48                      | 35.9 <sup>a</sup>            | +5.4                      | 57      | 24   | 22     | 51   |                      | \$                       |                           |                      | 2.5                       | 11                           | 8     | 13         | 7      | nw.                          |                                                                                                                             |
| Flemington.....                      | Hunterdon.....  | 140             | 41                      | 36.6                         | +7.8                      | 61      | 24   | 22     | 81   | 30                   | 2.36                     | -1.18                     | 0.70                 | 5.0                       | 11                           | 11    | 7          | 10     | w.                           | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                            |
| Highwood II.....                     | Bergen.....     | 90              | 39                      | 33.6                         | +5.2                      | 53      | 24   | 20     | 51   | 25                   | 2.79                     | -1.47                     | 1.00                 | 3.0                       | 10                           | 9     | 6          | 13     | nw.                          |                                                                                                                             |
| Jersey City.....                     | Hudson.....     | 10              | 29                      | 37.0                         | +6.4                      | 57      | 24   | 22     | 21   | 22                   | 3.54                     | -0.18                     | 1.05                 | 3.9                       | 13                           | 8     | 12         | 8      | nw.                          |                                                                                                                             |
| Lambertville.....                    | Hunterdon.....  | 370             | 40                      | 35.0                         | +4.6                      | 54      | 17   | 21     | 121  | 25                   | 3.18                     | -0.30                     | 0.80                 | 5.2                       | 16                           | 10    | 7          | 11     | nw.                          |                                                                                                                             |
| Little Falls.....                    | Passaic.....    | 180             | 24                      | 34.0 <sup>a</sup>            | +4.4                      | 58      | 24   | 20     | 51   | 30                   | 3.15                     | -0.32                     | 0.90                 | 5.8                       | 12                           | 11    | 8          | 9      | nw.                          | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.        |
| New Brunswick.....                   | Middlesex.....  | 110             | 74                      | 35.5                         | +4.7                      | 59      | 24   | 18     | 20   | 28                   | 2.49                     | -1.13                     | 0.74                 | 1.6                       | 10                           | 9     | 10         | 9      | n                            |                                                                                                                             |
| New Milford II.....                  | Bergen.....     | 9               | 9                       |                              |                           |         |      |        |      |                      | \$                       |                           |                      |                           | 12                           |       |            |        |                              |                                                                                                                             |
| Paterson.....                        | Passaic.....    | 80              | 56                      | 36.2                         | +6.0                      | 56      | 24   | 21     | 51   | 23                   | 3.12                     | -1.09                     | 0.77                 | 9.0                       | 13                           | 10    | 6          | 12     | nw.                          |                                                                                                                             |
| Plainfield.....                      | Union.....      | 120             | 39                      | 35.2                         | +6.5                      | 57      | 24   | 20     | 81   | 29                   | 2.79                     | -1.17                     |                      | 4.3                       | 12                           | 9     | 8          | 11     | nw.                          |                                                                                                                             |
| Ridgefield.....                      | Bergen.....     | 80              | 10                      | 34.4                         |                           | 57      | 24   | 20     | 20   | 26                   | 2.90                     |                           | 0.89                 | 6.2                       | 12                           | 9     | 7          | 12     | nw.                          | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach.<br>Luther Davis.<br>Hackensack Water Co.                              |
| Somerville.....                      | Somerset.....   | 70              | 44                      | 35.8                         | +6.9                      | 56      | 24   | 19     | 81   | 30                   | 3.06                     | -0.72                     | 0.85                 | 5.2                       | 10                           | 11    | 7          | 10     | w.                           |                                                                                                                             |
| South Orange.....                    | Essex.....      | 200             | 57                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                             |
| Verona.....                          | Essex.....      | 490             | 1                       | 33.5                         |                           | 53      | 24   | 19     | 51   | 21                   | 3.52                     |                           | 1.33                 | 2.7                       | 13                           | 4     | 12         | 12     | w.                           |                                                                                                                             |
| Woodcliff Lake II.....               | Bergen.....     | 100             | 9                       |                              |                           |         |      |        |      |                      | \$                       |                           |                      |                           | 10                           |       |            |        |                              | U. S. Weather Bureau.                                                                                                       |
| New York, N. Y.....                  |                 | 365             | 57                      | 36.6                         | +5.3                      | 56      | 24   | 22     | 21   | 26                   | 3.33                     | -0.41                     | 1.46                 | 1.0                       | 11                           | 7     | 9          | 12     | nw.                          |                                                                                                                             |
| Means and extremes.....              |                 |                 |                         | 35.0                         | +5.7                      | 61      | 24   | 17     | 81   | 30                   | 2.88                     | -0.95                     | 1.33                 | 4.5                       | 12                           | 10    | 8          | 10     | nw.                          |                                                                                                                             |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                             |
| Belleplain.....                      | Cape May.....   | 30              | 33                      | 37.8 <sup>b</sup>            | +6.3                      | 66      | 17   |        |      |                      | \$                       |                           |                      | 2.3                       |                              |       |            |        |                              | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                       |
| Bridgeton.....                       | Cumberland..... | 90              | 46                      | 38.8 <sup>a</sup>            | +5.1                      | 63      | 17   | 23     | 5    | 29                   | 2.54                     | -1.28                     |                      | 3.5                       | 5                            | 14    | 2          | 12     | nw.                          |                                                                                                                             |
| Burlington.....                      | Burlington..... | 12              | 41                      | 37.9                         | +6.6                      | 60      | 17   | 25     | 51   | 28                   | 2.26                     | -1.24                     | 0.84                 | 2.6                       | 12                           | 10    | 5          | 13     | nw.                          |                                                                                                                             |
| Clayton.....                         | Gloucester..... | 130             | 30                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                             |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              | R. E. Montgomery.<br>Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                            |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | 37.7                         | +8.3                      | 57      | 24   | 20     |      |                      | 4.55                     | +0.95                     |                      |                           | 9                            | 13    | 7          | 8      | w.                           |                                                                                                                             |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 36.6 <sup>a</sup>            | +6.2                      |         |      |        |      |                      | 2.71                     | -0.83                     |                      |                           | 12                           |       |            |        |                              |                                                                                                                             |
| Indian Mills II.....                 | Burlington..... | 76              | 38                      | 38.0                         | +6.2                      | 61      | 17   | 18     | 8    | 35                   | 3.24                     | -0.21                     | 0.80                 | 6.0                       | 11                           | 7     | 10         | 11     | nw.                          |                                                                                                                             |
| Lakewood.....                        | Ocean.....      | 54              | 23                      | 36.1                         | +6.4                      | 55      | 31   | 18     | 8    | 33                   | 4.31                     | +0.74                     | 1.15                 | 6.5                       | 11                           | 10    | 8          | 10     | nw.                          | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                         |
| Moorestown.....                      | Burlington..... | 75              | 64                      | 38.4                         | +7.1                      | 62      | 17   | 22     | 8    | 29                   | 3.22                     | -0.26                     |                      | 4.0                       | 9                            | 10    | 7          | 11     | nw.                          |                                                                                                                             |
| Northfield II.....                   | Atlantic.....   | 25              | 20                      |                              |                           |         |      |        |      |                      | 3.21                     | +0.42                     | 0.98                 | 2.9                       | 10                           |       |            |        |                              |                                                                                                                             |
| Pleasantville II.....                | Atlantic.....   | 26              | 29                      | 37.8                         |                           | 64      | 17   | 20     | 81   | 38                   | 3.70                     | +0.89                     | 1.57                 |                           | 11                           | 15    | 5          | 8      | nw.                          |                                                                                                                             |
| Riverton.....                        | Burlington..... |                 | 1                       | 37.2                         |                           | 61      | 17   | 24     | 51   | 26                   | 3.58                     |                           | 1.32                 | 1.6                       | 10                           | 13    | 5          | 10     | nw.                          | Japanese Beetle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Runyon II.....                       | Middlesex.....  | 18              | 3                       | 36.0 <sup>a</sup>            |                           | 55      | 3    | 19     | 16   | 35                   | 2.18                     |                           | 0.61                 |                           | 10                           | 13    | 8          | 7      | w.                           |                                                                                                                             |
| Trenton.....                         | Mercer.....     | 190             | 55                      | 37.6                         | +6.9                      | 59      | 17   | 23     | 5    | 26                   | 2.59                     | -0.60                     | 0.87                 | 3.7                       | 11                           | 8     | 9          | 11     | nw.                          |                                                                                                                             |
| Tuckerton.....                       | Ocean.....      | 23              | 34                      | 40.6 <sup>a</sup>            | +9.8                      | 62      | 17   | 22     | 81   |                      | 3.57                     | -0.09                     | 1.25                 |                           | 10                           | 14    | 9          | 5      | e.                           |                                                                                                                             |
| Vineland.....                        | Cumberland..... | 109             | 58                      | 40.6 <sup>a</sup>            | +8.1                      | 66      | 17   | 25     | 11   | 31                   | 3.93                     | +0.21                     | 1.01                 |                           | 10                           | 9     | 11         | 8      | nw                           |                                                                                                                             |
| Philadelphia, Pa.....                |                 | 117             | 56                      | 40.6                         | +6.7                      | 62      | 17   | 27     | 5    | 24                   | 3.62                     | +0.24                     | 1.90                 | 1.9                       | 12                           | 5     | 11         | 12     | sw.                          | U. S. Weather Bureau.                                                                                                       |
| Means and extremes.....              |                 |                 |                         | 37.9                         | +7.0                      | 66      | 17   | 18     | 8    | 38                   | 3.26                     | -0.11                     | 1.57                 | 3.7                       | 10                           | 11    | 7          | 10     | nw.                          |                                                                                                                             |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                              |       |            |        |                              |                                                                                                                             |
| Asbury Park.....                     | Monmouth.....   | 22              | 38                      | 36.7 <sup>a</sup>            | +5.3                      | 60      | 4    | 23     | 28   | 29                   | 2.35                     | -1.15                     |                      | 1.5                       | 11                           | 13    | 10         | 5      | nw.                          | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                              |
| Atlantic City.....                   | Atlantic.....   | 16              | 54                      | 40.4                         | +6.8                      | 64      | 17   | 26     | 28   | 28                   | 3.94                     | +0.67                     | 1.86                 | 2.5                       | 9                            | 10    | 8          | 10     | w.                           |                                                                                                                             |
| Cape May City.....                   | Cape May.....   | 17              | 43                      | 40.4                         | +6.3                      | 65      | 17   | 28     | 5    | 27                   | 3.05                     | -0.24                     | 1.32                 | 2.8                       | 11                           |       |            |        | nw.                          |                                                                                                                             |
| Sandy Hook.....                      | Monmouth.....   | 22              | 29                      | 36.1                         | +5.5                      | 54      | 24   | 24     | 5    | 21                   | 3.68                     | +0.11                     | 1.13                 | 0.5                       | 11                           | 7     | 9          | 12     | w.                           |                                                                                                                             |
| Means and extremes.....              |                 |                 |                         | 38.4                         | +6.0                      | 65      | 17   | 23     | 28   | 29                   | 3.26                     | -0.14                     | 1.86                 | 1.8                       | 10                           | 10    | 9          | 9      | nw.                          |                                                                                                                             |
| For the State.....                   |                 |                 |                         | 36.1                         | +6.5                      | 66      | 17   | 4      | 12   | 38                   | 3.12                     | -0.43                     | 1.86                 | 5.1                       | 11                           | 10    | 8          | 10     | nw                           |                                                                                                                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for February, 1927

| Stations                                   | Drainage Basin  | Day of month |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      | Total |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|-----|-----|-----|---|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|------|-----|------|-----|-----|----|----|------|-------|
|                                            |                 | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8 | 9  | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18   | 19   | 20   | 21  | 22  | 23  | 24   | 25  | 26   | 27  | 28  | 29 | 30 | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      |       |
| Belvidere.....                             | Delaware.....   |              |     | .06 |     |     | .35 |     |   |    | .10 |     |     | .53 |     | .11 |     | *   | *    | 1.22 | T.   | T.  |     |     |      |     | T.   | .70 | T.  |    |    |      | 3.07  |
| Charlotteburg.....                         | Passaic.....    |              |     | .01 |     |     | .20 |     |   |    | .07 |     |     | .40 |     | .04 | .23 | .29 | .45  | .63  | .10  | T.  |     |     |      |     |      | .84 |     |    |    |      | 3.26  |
| Culvers Lake.....                          | Delaware.....   |              | T.  | T.  | .02 |     | .18 | T.  |   |    | .08 |     |     | .52 |     | .03 | .18 | .26 | .86  | .52  | .08  | T.  |     |     |      |     |      | .25 |     |    |    |      | 2.98  |
| Dover.....                                 | Passaic.....    |              |     | .02 |     |     | .14 |     |   |    | .15 |     |     | .34 |     | .12 |     | .27 | .70  | T.   | T.   |     |     |     |      |     | T.   | *   | .63 |    |    |      | 2.37  |
| Layton.....                                | Delaware.....   |              |     | T.  |     |     | .10 |     |   |    | .05 |     |     | .71 |     | .04 | .81 | .28 | 1.27 | .64  | .03  | T.  |     |     |      | *   | .46  |     |     |    |    | 4.39 |       |
| Newton.....                                | Delaware.....   | T.           |     | .04 |     |     | .15 | T.  |   |    | .09 |     |     | .45 | T.  | .06 | .14 | .28 | .70  | .33  | .11  | T.  | T.  |     |      | T.  | .15  |     |     |    |    | 2.50 |       |
| Phillipsburg.....                          | do.....         |              |     | .06 |     | T.  | T.  |     |   |    | .11 |     | .21 | .13 |     | .08 |     | .10 | .82  | .88  | .37  |     |     |     |      | .17 | .09  |     |     |    |    | 3.02 |       |
| Sussex.....                                | Hudson.....     |              | .09 |     | .03 |     | .29 |     |   |    | .22 |     |     | .65 |     | .06 | .73 | .31 | *    | 1.30 | T.   |     |     | .04 |      |     | .17  | .25 |     |    |    |      | 3.97  |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      |       |
| Bergen Point**.....                        | Coast.....      |              |     | T.  | T.  | T.  | .16 |     |   |    | T.  |     | *   | .36 | T.  | T.  |     | T.  | 1.27 | .61  | T.   | T.  |     |     |      | *   | 1.00 |     |     |    |    | 3.40 |       |
| Boonton   .....                            | Passaic.....    |              |     | T.  |     |     | .12 | T.  |   |    | .02 |     |     | .19 | .10 |     | .11 | .22 | .31  | .54  | .07  | T.  |     |     |      |     | .55  |     |     |    |    | 2.23 |       |
| Chatham   .....                            | do.....         |              |     |     | .02 |     | .11 | .08 |   |    |     | .20 |     |     | .12 | .16 |     | .09 | .05  | .16  | .34  | .29 | .06 |     |      |     | .59  |     |     |    |    | 2.27 |       |
| Elizabeth.....                             | Coast.....      |              |     | T.  | T.  |     | .15 |     |   |    | .05 |     |     | .16 |     | .15 |     | .25 | .15  | \$   | \$   | T.  |     |     | T.   |     | .65  |     |     |    |    | \$   |       |
| Flemington.....                            | Raritan.....    |              |     | T.  |     | T.  | .12 |     |   |    | .08 |     | T.  | .23 |     | .08 | T.  | .19 | .39  | .51  | .06  | T.  |     |     |      | T.  | .70  | T.  |     |    |    | 2.36 |       |
| Highwood.....                              | Hackensack..... |              |     | .02 |     |     | .20 |     |   |    | T.  |     |     | .40 | T.  | .03 | T.  | .19 | 1.00 | T.   | T.   | .07 |     |     |      | .01 | .87  | T.  |     |    |    | 2.79 |       |
| Jersey City.....                           | Coast.....      |              |     | .01 |     | .01 | .14 |     |   |    | .01 |     | .01 | .35 |     | .05 |     | .25 | 1.05 | .60  | .02  |     |     |     |      | .02 | 1.02 | T.  |     |    |    | 3.54 |       |
| Lambertville.....                          | Delaware.....   |              |     | .04 | .08 |     | .10 |     |   |    | .06 |     | .13 | .34 | .03 | .09 |     | .24 | .80  | .40  | .03  | T.  |     |     |      | .01 | .78  | .01 |     |    |    | 3.18 |       |
| Little Falls   .....                       | Passaic.....    |              |     | T.  |     |     | .16 |     |   | T. | .01 | T.  |     | .22 | .16 |     | .06 | .20 | .58  | .90  | .05  | .01 |     |     |      |     | .80  |     |     |    |    | 3.15 |       |
| New Brunswick.....                         | Raritan.....    |              |     | T.  |     |     | T.  | .02 |   |    | .05 |     | T.  | .32 |     | .07 |     | .20 | .74  | .58  | T.   |     |     |     |      |     | .51  | T.  |     |    |    | 2.49 |       |
| New Milford**.....                         | Hackensack..... |              |     |     |     | .04 | .13 |     |   |    |     |     | .07 | .33 | .07 |     | .19 | \$  | \$   | \$   | \$   | .34 |     |     |      | .56 | .16  |     |     |    |    | \$   |       |
| Paterson.....                              | Passaic.....    |              |     | .01 |     |     | .16 |     |   |    | .02 |     |     | .40 |     | .09 | .02 | .21 | .73  | .67  | .04  |     |     |     |      | .02 | .75  | T.  |     |    |    | 3.12 |       |
| Plainfield.....                            | Raritan.....    |              |     | .02 |     | T.  | .12 |     |   |    | .04 |     | *   | .38 |     | .04 |     | *   | .92  | .75  | .02  | T.  |     |     |      | *   | .50  |     |     |    |    | 2.79 |       |
| Ridgefield.....                            | Hackensack..... |              |     | .01 |     | .02 | .19 |     |   |    | T.  |     | .03 | .32 |     | .06 |     | .17 | .38  | .89  | T.   | .03 |     |     |      | *   | .80  |     |     |    |    | 2.90 |       |
| Somerville.....                            | Raritan.....    |              |     | T.  |     |     | .14 |     |   |    | .05 |     |     | .49 |     | .07 |     | .22 | .85  | .64  | T.   |     |     |     |      |     | .60  |     |     |    |    | 3.06 |       |
| South Orange.....                          | Rahway.....     |              |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      |       |
| Verona**.....                              | Passaic.....    |              |     | T.  |     | .03 | .16 |     |   |    | .04 |     | .11 | .26 |     | .07 |     | .21 | 1.33 | .52  | .02  | .03 |     |     |      |     | .64  | .10 |     |    |    | 3.52 |       |
| Woodcliff Lake**.....                      | Hackensack..... |              |     |     |     | .20 |     |     |   |    |     |     | .14 | .05 | .11 |     | .24 | \$  | .59  | \$   |      |     |     |     |      | .13 | .70  |     |     |    |    | \$   |       |
| New York, N. Y***.....                     | Coast.....      |              |     | .01 |     | .02 | .12 |     |   |    | T.  |     | .05 | .28 |     | .05 |     | .26 | 1.20 | .33  | T.   | T.  |     |     |      | .88 | .13  | T.  |     |    |    | 3.33 |       |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      |       |
| Belleplain.....                            | Tuckahoe.....   |              |     | .01 |     | .15 | .11 |     |   |    | .10 |     | .19 | .14 |     |     |     | *   | 1.22 | 1.09 |      |     |     |     |      |     | \$   |     |     |    |    | \$   |       |
| Bridgeton.....                             | Coast.....      |              |     |     |     | .30 |     |     |   |    | T.  |     | T.  |     |     |     | .57 | *   | 1.15 |      |      |     |     |     |      |     | .52  |     |     |    |    | 2.54 |       |
| Burlington.....                            | Delaware.....   |              |     | T.  |     | .01 | .02 |     |   |    | .02 |     | .12 | .27 |     | .04 |     | .28 | .84  | .27  | .02  | T.  |     |     |      |     | .37  |     | T.  |    |    | 2.26 |       |
| Clayton.....                               | Delaware.....   |              |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      |       |
| Hammonton.....                             | Mullica.....    |              |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      |       |
| Hightstown.....                            | Raritan.....    |              |     | T.  |     |     | .06 |     |   |    | .25 |     | .88 | .08 |     | .09 |     | .36 | *    | *    | 2.47 |     |     |     |      |     | .36  |     |     |    |    | 4.55 |       |
| Inlaystown.....                            | Delaware.....   |              |     |     | .05 | .15 |     |     |   |    | .10 |     | *   | .25 |     | .05 |     | .36 | *    | .90  | .33  |     |     |     |      |     | .52  |     |     |    |    | 2.71 |       |
| Indian Mills.....                          | Mullica.....    |              |     | T.  |     | .20 |     |     |   |    | .06 |     | .08 | .27 |     | .05 |     | .54 | .60  | .80  | T.   | .03 |     |     |      | T.  | .61  |     | T.  |    |    | 3.24 |       |
| Lakewood.....                              | Metedeconk..... |              |     | T.  |     | .17 |     |     |   |    | .04 |     | .22 | .40 |     | .02 |     | .48 | .68  | 1.15 | .15  | T.  |     |     |      | T.  | 1.00 |     | T.  |    |    | 4.31 |       |
| Moorestown.....                            | Delaware.....   |              |     | T.  |     | .12 |     |     |   |    | T.  |     | .26 | .24 |     | .01 |     | .46 | *    | 1.68 | .02  |     |     |     |      | .43 |      | T.  | T.  |    |    | 3.22 |       |
| Northfield.....                            | Coast.....      |              |     |     | .20 | .06 |     |     |   |    | .09 |     | .15 | .19 |     |     |     | .43 | .83  | .98  | .01  | T.  |     |     |      | .27 |      |     |     |    |    | 3.21 |       |
| Pleasantville   .....                      | Coast.....      |              |     |     |     | .20 |     |     |   |    | .10 |     |     | .46 | T.  |     |     | .56 | .34  | 1.57 | .11  | T.  | T.  | .01 |      | .35 |      |     |     |    |    | 3.70 |       |
| Riverton   .....                           | Delaware.....   |              |     |     | T.  |     | .13 | T.  |   |    | .06 | T.  |     | .43 | .07 |     | .02 | .38 | .43  | 1.32 | .19  | T.  |     |     |      | .55 |      | T.  |     |    |    | 3.58 |       |
| Runyon.....                                | Coast.....      |              |     |     |     | .18 |     |     |   |    | .08 |     |     | .41 |     | .06 |     | .27 | .07  | .50  |      |     |     |     |      |     | .61  |     |     |    |    | 2.18 |       |
| Trenton***.....                            | Delaware.....   |              |     | .01 |     | .08 | T.  |     |   |    | .05 |     | .27 | .28 |     | .11 |     | .26 | .82  | .22  | T.   |     |     |     |      | .47 | .02  | T.  |     |    |    | 2.59 |       |
| Tuckerton.....                             | Coast.....      |              |     | .02 |     | .20 |     |     |   |    | .10 |     | .10 | .25 |     | .02 |     | .60 | .45  | 1.25 | .60  |     |     |     |      | .50 |      |     |     |    |    | 3.57 |       |
| Vineland.....                              | Maurice.....    |              |     | .02 |     | .15 | .30 |     |   |    | T.  |     | T.  |     | .40 |     |     | .80 | .56  | 1.01 | .24  |     |     |     |      | .45 |      |     |     |    |    | 3.93 |       |
| Phila., Pa***.....                         | Delaware.....   |              |     | .02 |     | .11 | .03 |     |   | T. | .02 |     | .31 | .11 |     | .02 |     | .33 | 1.65 | .48  | T.   | .01 |     |     |      | .53 | T.   | T.  |     |    |    | 3.62 |       |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |     |     |     |   |    |     |     |     |     |     |     |     |     |      |      |      |     |     |     |      |     |      |     |     |    |    |      |       |
| Asbury Park.....                           | Coast.....      |              |     | .05 |     | .01 | .20 |     |   |    | T.  |     | .05 | .34 |     | .05 |     | .45 | *    | .70  | T.   |     |     |     | *    | .50 | T.   |     |     |    |    | 2.35 |       |
| Atlantic City***.....                      | do.....         | T.           |     | T.  |     | .21 | .04 |     |   | T. | .10 |     | .37 | .04 |     | T.  |     | .38 | 1.70 | .30  | T.   |     |     | T.  |      | T.  | .80  |     | T.  |    |    | 3.94 |       |
| Cape May City.....                         | do.....         |              |     | .17 | .35 | T.  |     |     |   | T. | .11 |     | .33 | .07 |     | .03 |     | .07 | .86  | .70  | .06  |     |     | T.  |      | T.  | .30  |     | T.  |    |    | 3.05 |       |
| Sandy Hook***.....                         | do.....         |              |     | .01 |     | T.  | .15 |     |   | T. | T.  |     | .12 | .18 |     | .08 |     | .34 | 1.04 | .63  | .08  | T.  |     |     | 1.01 | .04 |      |     |     |    |    | 3.68 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 30.03        | 30.46   | 1    | 29.56  | 25   | 19.1            | 84             | ne.       | 20   | 83                                     | 72                                        | 58                                      |               |
| New York, N. Y.....   | 30.03        | 30.45   | 1    | 29.48  | 26   | 16.8            | 77             | nw.       | 4    | 74                                     | 66                                        | 67                                      |               |
| Philadelphia, Pa..... | 30.03        | 30.46   | 1    | 29.58  | 26   | 9.9             | 32             | ne.       | 19   | 82                                     | 75                                        | 46                                      |               |
| Ridgefield.....       |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Riverton.....         |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Sandy Hook.....       | 30.02        | 30.44   | 1    | 29.49  | 26   | 15.6            | 64             | nw.       | 4    | 86                                     | 66                                        | 76                                      |               |
| Trenton.....          | 30.02        | 30.46   | 1    | 29.55  | 25   | 12.2            | 52             | ne.       | 19   | 82                                     | 72                                        | 52                                      |               |
| Verona.....           | 30.02        | 30.44   | 5    | 29.50  | 26   | 7.2             | 44             | w.        | 4    | 83*                                    | 63                                        | 75                                      |               |
|                       |              |         |      |        |      |                 |                |           |      | 83*                                    | 70                                        | 53                                      |               |

\* 7 a. m.



## Daily Temperatures for February, 1922

| Stations                             | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Belvidere.....                       | Maximum | 41    | 47    | 49    | 50    | 33    | 33    | 40    | 45    | 48    | 44    | 40    | 48    | 42    | 35    | 46    | 41    | 54    | 44    | 39    | 30    | 32    | 46    | 50    | 58    | 50    | 40    | 35    | 43    | ..... | 43.   |       |
|                                      | Minimum | 30    | 33    | 24    | 28    | 20    | 22    | 31    | 20    | 22    | 33    | 28    | 21    | 22    | 25    | 31    | 25    | 32    | 33    | 22    | 17    | 22    | 22    | 25    | 24    | 26    | 29    | 26    | 23    | ..... | 25.   |       |
| Charlotteburg.....                   | Maximum | 38    | 44    | 47    | 45    | 31    | 35    | 38    | 43    | 46    | 45    | 36    | 43    | 40    | 32    | 43    | 39    | 51    | 50    | 42    | 24    | 29    | 35    | 54    | 52    | 53    | 45    | 36    | 37    | ..... | 41.   |       |
|                                      | Minimum | 15    | 31    | 24    | 22    | 16    | 17    | 18    | 16    | 20    | 30    | 22    | 15    | 18    | 27    | 29    | 22    | 32    | 29    | 18    | 17    | 17    | 20    | 33    | 30    | 27    | 29    | 23    | 18    | ..... | 22.   |       |
| Dover.....                           | Maximum | 38    | 47    | 47    | 48    | ..... | 34    | 39    | 43    | 48    | 40    | 35    | 45    | 37    | 32    | 44    | 37    | 51    | 44    | ..... | 22    | 26    | 41    | 50    | 54    | 50    | ..... | 37    | 40    | ..... | 41.   |       |
|                                      | Minimum | 25    | 33    | 24    | 23    | 19    | 20    | 29    | 19    | 24    | 32    | 23    | 23    | 20    | 24    | 31    | 25    | 34    | 32    | 22    | 19    | 21    | 22    | 34    | 33    | 32    | 28    | 24    | 20    | ..... | 25.   |       |
| Layton.....                          | Maximum | 37    | 42    | 44    | 50    | 38    | 32    | 40    | 48    | 38    | 38    | 46    | 30    | 30    | 30    | 45    | 35    | 48    | 44    | 38    | 22    | 30    | 47    | 49    | 55    | 54    | 45    | 32    | 39    | ..... | 40.   |       |
|                                      | Minimum | 18    | 33    | 25    | 22    | 18    | 20    | 28    | 16    | 20    | 33    | 22    | 10    | 18    | 20    | 30    | 20    | 32    | 29    | 22    | 17    | 20    | 20    | 32    | 23    | 29    | 21    | 14    | ..... | 22.   |       |       |
| Newton.....                          | Maximum | 45    | ..... | 45    | 48    | 29    | 32    | 39    | 42    | 47    | 40    | 37    | ..... | 40    | 32    | 45    | 37    | 50    | 44    | 41    | 24    | 29    | 42    | 50    | 55    | 54    | ..... | 35    | 39    | ..... | 40.   |       |
|                                      | Minimum | 25    | 30    | 27    | 23    | 17    | 21    | 30    | 20    | 28    | 32    | 24    | 19    | 20    | 23    | 28    | 25    | 34    | 32    | 20    | 14    | 19    | 22    | 34    | 34    | 32    | 26    | 22    | 18    | ..... | 25.   |       |
| Phillipsburg.....                    | Maximum | 44    | 48    | 49    | 50    | 39    | 34    | 41    | 44    | 47    | 38    | 40    | 46    | 42    | 37    | 45    | 44    | 56    | 48    | 45    | 27    | 33    | 44    | 49    | 53    | 51    | 41    | 44    | 43    | ..... | 43.   |       |
|                                      | Minimum | 38    | 31    | 27    | 28    | 24    | 24    | 29    | 25    | 26    | 29    | 30    | 25    | 25    | 27    | 33    | 28    | 34    | 36    | 23    | 21    | 24    | 24    | 35    | 28    | 30    | 31    | 28    | 28    | ..... | 41.   |       |
| Sussex.....                          | Maximum | 45    | 43    | 47    | 48    | 28    | 32    | 39    | 44    | 47    | 39    | 36    | 45    | 40    | ..... | 43    | 38    | 44    | 43    | 41    | 31    | 38    | 44    | 51    | 57    | 50    | 42    | 37    | 38    | ..... | 28.   |       |
|                                      | Minimum | 21    | 33    | 26    | 24    | 18    | 20    | 31    | 18    | 19    | 30    | 25    | 13    | 18    | 24    | ..... | 22    | 32    | 29    | 20    | 15    | 20    | 20    | 33    | 25    | 24    | 30    | 24    | 15    | ..... | 23.   |       |
| The Red Sandstone Plain.             |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Bergen Point.....                    | Maximum | 43    | 50    | 52    | ..... | 34    | 43    | 47    | 48    | 45    | 39    | 49    | 42    | 38    | 47    | 43    | 45    | 45    | 42    | 28    | 31    | 41    | 50    | 59    | 46    | 39    | 39    | 43    | ..... | 43.   |       |       |
|                                      | Minimum | 28    | 38    | 30    | 29    | 23    | 33    | 27    | 31    | 35    | 29    | 28    | 26    | 28    | 30    | 29    | 37    | 35    | ..... | 22    | 22    | 22    | 25    | 35    | 35    | 33    | 30    | 25    | ..... | 29.   |       |       |
| Boonton§§                            | Maximum | 41    | 48    | 51    | 34    | 26    | 40    | 41    | 43    | 48    | 40    | 36    | 47    | 32    | 33    | 36    | 39    | 48    | 48    | 28    | 25    | 32    | 42    | 49    | 55    | 52    | 39    | 38    | 40    | ..... | 40.   |       |
|                                      | Minimum | 18    | 25    | 23    | 25    | 19    | 18    | 24    | 17    | 20    | 27    | 25    | 17    | 19    | 21    | 27    | 22    | 25    | 28    | 22    | 17    | 19    | 21    | 24    | 31    | 25    | 28    | 26    | 22    | ..... | 22.   |       |
| Elizabeth.....                       | Maximum | 42    | 50    | 53    | 51    | 29    | 35    | 44    | 47    | 47    | 45    | 40    | 49    | 46    | 34    | 49    | 45    | 46    | ..... | ..... | ..... | 34    | 41    | 50    | 57    | 51    | 41    | 39    | 42    | ..... | 44.   |       |
|                                      | Minimum | ..... | 34    | 26    | 29    | 22    | 23    | 34    | 22    | 25    | 32    | 27    | 23    | 23    | 32    | 32    | 25    | 34    | 33    | 25    | 24    | 23    | 24    | 31    | 26    | 23    | 33    | 28    | 23    | ..... | 27.   |       |
| Flemington.....                      | Maximum | 41    | 51    | 50    | 51    | 39    | 37    | 44    | 44    | 45    | 51    | 44    | 42    | 49    | 44    | 34    | 46    | 43    | 56    | 51    | 45    | 27    | 35    | 48    | 51    | 61    | 52    | 43    | 42    | 44    | ..... | 45.   |
|                                      | Minimum | 30    | 34    | 25    | 32    | 23    | 23    | 32    | 22    | 28    | 33    | 28    | 23    | 25    | 26    | 32    | 25    | 33    | 35    | 26    | 22    | 23    | 23    | 33    | 31    | 32    | 31    | 28    | 24    | ..... | 27.   |       |
| Highwood.....                        | Maximum | 40    | 48    | 48    | 51    | 28    | 33    | 32    | 44    | 46    | 44    | 36    | 47    | 37    | 33    | 45    | 39    | 43    | 44    | 28    | 31    | 39    | 48    | 53    | 46    | 40    | 39    | 41    | ..... | 40.   |       |       |
|                                      | Minimum | 22    | 35    | 27    | 28    | 20    | 22    | 30    | 21    | 23    | 31    | 26    | 24    | 21    | 28    | 32    | 26    | 33    | 34    | 24    | 21    | 21    | 31    | 39    | 48    | 46    | 40    | 39    | 41    | ..... | 40.   |       |
| Jersey City.....                     | Maximum | 42    | 50    | 51    | 52    | 30    | 34    | 42    | 47    | 47    | 45    | 37    | 47    | 47    | 47    | 49    | 44    | 49    | 48    | 41    | 27    | 32    | 44    | 52    | 57    | 50    | 43    | 30    | 40    | ..... | 48.   |       |
|                                      | Minimum | 30    | 36    | 33    | 30    | 23    | 26    | 33    | 31    | 36    | 35    | 31    | 29    | 25    | 30    | 32    | 32    | 36    | 35    | 26    | 23    | 22    | 25    | 37    | 40    | 36    | 34    | 28    | 25    | ..... | 30.   |       |
| Lambertville.....                    | Maximum | 40    | 48    | 49    | 50    | 30    | 34    | 41    | 44    | 46    | 42    | 37    | 46    | 41    | 33    | 43    | 39    | 51    | 46    | 47    | 27    | 31    | 40    | 50    | 53    | 51    | 39    | 37    | ..... | 41.   |       |       |
|                                      | Minimum | 28    | 34    | 28    | 30    | 22    | 24    | 32    | 23    | 29    | 33    | 29    | 21    | 23    | 26    | 31    | 26    | 33    | 34    | 25    | 21    | 22    | 22    | 35    | 37    | 36    | 28    | 27    | 25    | ..... | 28.   |       |
| Little Falls§§                       | Maximum | 43    | 50    | 51    | 37    | 28    | 40    | 46    | 51    | 43    | 38    | 48    | ..... | 36    | 48    | 40    | 41    | 49    | 31    | 25    | 32    | 38    | 54    | 58    | 56    | 46    | 38    | 41    | ..... | 42.   |       |       |
|                                      | Minimum | 21    | 31    | 26    | 27    | 20    | 20    | 28    | 20    | 23    | 31    | 27    | 21    | 22    | 26    | 30    | 25    | 31    | 31    | 25    | 20    | 21    | 22    | 30    | 28    | 26    | 33    | 23    | 22    | ..... | 25.   |       |
| New Brunswick.....                   | Maximum | 41    | 49    | 53    | 53    | 31    | 32    | 42    | 45    | 50    | 44    | 38    | 48    | 41    | 33    | 45    | 40    | 49    | 48    | 41    | 30    | 32    | 41    | 51    | 59    | 53    | 41    | 39    | 41    | ..... | 43.   |       |
|                                      | Minimum | 29    | 34    | 25    | 30    | 23    | 24    | 31    | 23    | 27    | 32    | 27    | 26    | 25    | 26    | 32    | 25    | 34    | 32    | 23    | 18    | 23    | 25    | 33    | 35    | 31    | 32    | 29    | 23    | ..... | 28.   |       |
| Paterson.....                        | Maximum | 41    | 50    | 50    | 51    | 32    | 33    | 42    | 47    | 50    | 44    | 40    | 49    | 43    | 24    | 48    | 42    | 45    | 47    | 43    | 26    | 32    | 42    | 52    | 56    | 52    | 42    | 40    | 44    | ..... | 43.   |       |
|                                      | Minimum | 26    | 36    | 32    | 29    | 21    | 22    | 22    | 26    | 29    | 35    | 30    | 26    | 24    | 28    | 34    | 29    | 35    | 35    | 25    | 21    | ..... | 25    | 37    | 35    | 32    | 32    | 29    | 24    | ..... | 28.   |       |
| Plainfield.....                      | Maximum | 42    | 49    | 51    | 51    | 30    | 34    | 42    | 47    | 46    | 45    | 37    | 48    | 34    | 36    | 47    | 44    | 48    | 48    | 41    | 27    | 32    | 44    | 52    | 57    | 50    | 43    | 40    | 40    | ..... | 43.   |       |
|                                      | Minimum | 24    | 32    | 22    | 30    | 23    | 26    | 31    | 20    | 25    | 32    | 29    | 21    | 22    | 30    | 30    | 30    | 32    | 31    | 27    | 25    | 20    | 23    | 27    | 34    | 36    | 32    | 27    | 23    | ..... | 40.   |       |
| Ridgefield.....                      | Maximum | 40    | 49    | 50    | 50    | 28    | 32    | 42    | 45    | 47    | 44    | 38    | 47    | 32    | 33    | 48    | 40    | 44    | 46    | 35    | 25    | 30    | 44    | 49    | 57    | 48    | 41    | 40    | 40    | ..... | 41.   |       |
|                                      | Minimum | 26    | 32    | 29    | 24    | 21    | 23    | 28    | 24    | 27    | 32    | 29    | 26    | 23    | 28    | 30    | 28    | 33    | 35    | 24    | 20    | 21    | 23    | 34    | 32    | 31    | 30    | 25    | 22    | ..... | 27.   |       |
| Somerville.....                      | Maximum | 43    | 50    | 52    | 51    | 34    | 32    | 46    | 48    | 51    | 45    | 39    | 49    | 45    | 35    | 46    | 41    | 55    | 49    | 45    | 28    | 34    | 44    | 53    | 56    | 55    | 41    | 40    | 42    | ..... | 44.   |       |
|                                      | Minimum | 25    | 34    | 22    | 31    | 24    | 24    | 32    | 19    | 25    | 31    | 28    | 21    | 24    | 27    | 32    | 28    | 35    | 33    | 26    | 22    | 23    | 25    | 32    | 28    | 26    | 33    | 29    | 19    | ..... | 26.   |       |
| South Orange.....                    | Maximum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Verona.....                          | Maximum | 39    | 47    | 49    | 39    | 25    | 33    | 40    | 44    | 46    | 40    | 35    | 45    | 34    | 32    | 44    | 38    | 44    | 45    | 38    | 24    | 29    | 38    | 50    | 53    | 52    | 38    | 36    | 38    | ..... | 39.   |       |
|                                      | Minimum | 25    | 34    | 29    | 24    | 19    | 21    | 31    | 23    | 30    | 33    | 26    | 22    | 25    | 31    | 27    | 34    | 34    | 34    | 24    | 19    | 20    | 20    | 35    | 37    | 33    | 31    | 27    | 22    | ..... | 37.   |       |
| New York, N. Y.....                  | Maximum | 42    | 49    | 50    | 51    | 29    | 34    | 42    | 47    | 46    | 44    | 37    | 46    | 34    | 37    | 48    | 44    | 49    | 47    | 41    | 27    | 31    | 43    | 51    | 56    | 49    | 42    | 38    | 40    | ..... | 42.   |       |
|                                      | Minimum | 30    | 36    | 34    | 25    | 23    | 25    | 33    | 31    | 36    | 35    | 29    | 26    | 30    | 32    | 32    | 36    | 35    | 26    | 23    | 22    | 25    | 39    | 42    | 36    | 31    | 28    | 25    | ..... | 30.   |       |       |
| The Southern Interior.               |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Belleplain.....                      | Maximum | 46    | 53    | 57    | 56    | 32    | ..... | 49    | 49    | 50    | 55    | 45    | 52    | 50    | ..... | 50    | 46    | 66    | 51    | 42    | 41    | ..... | ..... | ..... | ..... | ..... | ..... | 41    | 42    | ..... | 48.   |       |
|                                      | Minimum | 22    | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

Vol. XXXII.

MARCH, 1927.

No. 3

## GENERAL SUMMARY.

The weather during March was remarkable in three important elements. There have been but three drier Marches on record for the entire State, and along portions of the fall line across the State it was the driest March on record. The snowfall was negligible and was five and a half inches below normal. The temperature was considerably above normal, although it did not approach high records for warmth. The March winds, famed for their boisterous turbulence, were notably lacking, and there was hardly any period of the month which would be considered typical of its usual disagreeable characteristics. There was a persistent period from the 5th to the 20th, when the warmth was above normal, and on the 17th and 18th, temperatures were very generally well up in the 70's. On the whole it was a month which will long be a record as particularly pleasant.

There is a sound basis for the traditional stormy weather of March. During the years from 1885 to date, when records of the entire State have been carefully tabulated, the mean temperature of the State has varied from 30° to 49°; the extreme high was 92°, and the extreme low was 15° below zero; and the snowfall has ranged from nothing for the month to 20 inches. The March with no snow whatever was in 1903, and the 20 inches occurred in 1914.

Storm warnings were displayed along the coast on the 1st, 2d, 8th and 26th.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 41.9°, which was 3.3° above normal. The highest temperature was 81° at Lakewood and Runyon on the 18th, and the lowest 9° at Layton on the 2d. The greatest daily range of temperature was 50° at Sussex on the 17th. The highest monthly mean temperature was 45.4° at Moorestown, and the lowest, 38.2° at Charlotteburg.

The temperature departure from the normal for the year 1927, to date, by sections, is: The Highlands, +3.8°; Red Sandstone Plain, +2.7°; Southern Interior, +3.2°; Sea Coast, +2.6°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 1.46 inches, which was 2.42 inches below normal. The average total snowfall at sixteen selected stations was 0.3 inch, which was 5.5 inches below normal.

The greatest monthly precipitation was 2.73 inches at Indian Mills, and the least, 0.78 inch at New Brunswick. The greatest amount of precipitation in any 24 consecutive hours was 1.10 inches at Indian Mills on the 22d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 10, or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -3.08 inches; Red Sandstone Plain, -5.10 inches; Southern Interior, -4.06 inches; Sea Coast, -4.59 inches.

## WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 12 miles per hour, which was 3 miles below normal. The highest velocity, sustained for 5 consecutive minutes, was 61 miles per hour from the north at Sandy Hook on the 2d.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 14, which was 2 more than normal; partly cloudy, 7, or 2 less than normal; cloudy, 10, or normal. The per cent of possible sunshine was 59, which was 2 per cent below normal.

## MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 7.6 feet, and the highest stage, 13.0 feet on the 15th. At Trenton the mean daily stage was 4.1 feet, which was normal. The highest stage was 7.5 feet on the 16th.

The mean atmospheric pressure, reduced to sea level, was 30.11 inches, which was 0.10 inch above normal. The highest reading was 30.55 inches at Ridgefield on the 11th, and the lowest, 29.44 at Sandy Hook on the 8th.

Dense fog was reported on the 12th, 14th, 20th, 21st and 28th. Sleet occurred on the 22d, 24th, 27th and 28th. Thunderstorms were recorded on the 18th, 19th, 20th, 21st and 22d. Solar halos were observed on the 9th, 12th, 25th, and 30th; and a lunar halo was observed on the 12th. No hail was reported.

## COMPARATIVE DATA FOR MARCH

| Year | Temperature |         |        | Precipitation |          |       |          | No. of days |               |        |                        |
|------|-------------|---------|--------|---------------|----------|-------|----------|-------------|---------------|--------|------------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885 | 30.4        | 66      | 2      | 1.10          | 2.29     | 0.23  | .....    | .....       | .....         | .....  | .....                  |
| 1886 | 37.7        | 70      | 9      | 3.70          | 5.27     | 2.59  | .....    | .....       | .....         | .....  | .....                  |
| 1887 | 37.7        | 61      | 8      | 3.34          | 5.45     | 2.19  | .....    | .....       | .....         | .....  | .....                  |
| 1888 | 32.8        | 72      | 0      | 5.71          | 8.22     | 3.75  | .....    | .....       | .....         | .....  | .....                  |
| 1889 | 40.5        | 67      | 19     | 3.79          | 6.49     | 1.98  | .....    | .....       | .....         | .....  | .....                  |
| 1890 | 37.6        | 78      | 0      | 6.08          | 7.92     | 4.14  | .....    | .....       | .....         | .....  | .....                  |
| 1891 | 37.2        | 68      | 4      | 5.06          | 8.02     | 2.05  | .....    | .....       | .....         | .....  | .....                  |
| 1892 | 34.4        | 64      | 6      | 4.75          | 7.21     | 3.11  | .....    | .....       | .....         | .....  | .....                  |
| 1893 | 37.0        | 68      | 6      | 3.73          | 6.26     | 2.36  | .....    | .....       | .....         | .....  | .....                  |
| 1894 | 44.2        | 83      | 12     | 1.77          | 2.65     | 1.09  | .....    | .....       | .....         | .....  | .....                  |
| 1895 | 36.7        | 72      | 7      | 3.16          | 4.66     | 1.77  | 4.0      | 12          | 8             | 11     | 10                     |
| 1896 | 34.0        | 69      | -8     | 5.34          | 7.38     | 3.14  | 13.2     | 13          | 8             | 10     | 11                     |
| 1897 | 40.0        | 77      | 18     | 2.78          | 4.32     | 1.55  | 1.6      | 11          | 9             | 11     | 10                     |
| 1898 | 45.1        | 77      | 16     | 3.33          | 4.25     | 2.56  | 3.0      | 9           | 10            | 12     | 12                     |
| 1899 | 38.6        | 73      | 13     | 6.54          | 9.58     | 3.45  | 5.4      | 7           | 10            | 14     | 13                     |
| 1900 | 35.6        | 67      | -9     | 3.51          | 4.96     | 2.48  | 7.0      | 12          | 12            | 7      | 10                     |
| 1901 | 39.2        | 75      | -8     | 4.64          | 8.07     | 2.40  | 0.9      | 9           | 10            | 12     | 12                     |
| 1902 | 43.9        | 77      | 0      | 4.34          | 7.20     | 3.16  | 5.7      | 12          | 10            | 9      | 11                     |
| 1903 | 47.6        | 79      | 13     | 5.13          | 8.53     | 3.60  | 0        | 11          | 8             | 12     | 10                     |
| 1904 | 37.2        | 72      | 1      | 3.43          | 4.76     | 2.02  | 4.5      | 11          | 8             | 12     | 13                     |
| 1905 | 39.8        | 87      | -7     | 3.95          | 5.06     | 2.80  | 2.6      | 14          | 8             | 9      | 12                     |
| 1906 | 34.4        | 62      | -15    | 5.09          | 6.77     | 2.91  | 11.2     | 10          | 9             | 12     | 11                     |
| 1907 | 41.2        | 88      | -11    | 3.04          | 4.38     | 1.81  | 11.5     | 13          | 10            | 8      | 10                     |
| 1908 | 41.8        | 89      | 7      | 2.80          | 4.92     | 1.06  | 3.5      | 11          | 9             | 11     | 12                     |
| 1909 | 38.3        | 74      | -6     | 3.48          | 4.66     | 2.31  | 4.6      | 12          | 10            | 9      | 13                     |
| 1910 | 44.5        | 88      | 10     | 1.22          | 2.36     | 0.29  | 1.1      | 14          | 10            | 7      | 6                      |
| 1911 | 37.6        | 76      | 3      | 3.38          | 4.50     | 2.64  | 5.3      | 10          | 12            | 9      | 11                     |
| 1912 | 36.9        | 72      | 3      | 7.61          | 9.61     | 5.95  | 6.6      | 9           | 11            | 11     | 14                     |
| 1913 | 44.8        | 79      | 1      | 5.15          | 7.73     | 2.47  | 0.1      | 10          | 9             | 12     | 12                     |
| 1914 | 35.4        | 75      | -6     | 3.65          | 6.45     | 2.02  | 20.5     | 13          | 10            | 8      | 10                     |
| 1915 | 36.1        | 63      | 11     | 1.13          | 1.65     | 0.58  | 7.4      | 20          | 7             | 8      | 10                     |
| 1916 | 31.7        | 71      | -7     | 3.48          | 4.96     | 2.38  | 19.3     | 13          | 8             | 10     | 12                     |
| 1917 | 38.2        | 72      | 0      | 4.65          | 7.14     | 2.28  | 9.8      | 12          | 8             | 11     | 13                     |
| 1918 | 41.8        | 82      | 8      | 2.06          | 3.76     | 0.99  | 0.7      | 17          | 7             | 7      | 9                      |
| 1919 | 43.2        | 77      | 12     | 5.32          | 7.40     | 3.77  | 1.6      | 14          | 7             | 10     | 13                     |
| 1920 | 39.4        | 79      | -8     | 3.80          | 5.36     | 2.29  | 5.6      | 17          | 5             | 9      | 10                     |
| 1921 | 49.1        | 92      | 11     | 3.03          | 4.65     | 1.80  | T        | 14          | 7             | 10     | 11                     |
| 1922 | 41.1        | 82      | 2      | 4.52          | 7.10     | 3.42  | 3.7      | 12          | 6             | 13     | 13                     |
| 1923 | 38.0        | 81      | -3     | 4.09          | 6.73     | 2.13  | 6.3      | 17          | 6             | 8      | 10                     |
| 1924 | 38.8        | 76      | 5      | 2.51          | 5.69     | 0.80  | 2.7      | 16          | 6             | 9      | 8                      |
| 1925 | 43.3        | 80      | 1      | 3.47          | 6.09     | 1.50  | 0.3      | 16          | 6             | 9      | 9                      |
| 1926 | 35.1        | 79      | 0      | 2.25          | 3.15     | 1.52  | 0.4      | 16          | 9             | 6      | 7                      |
| 1927 | 41.9        | 81      | 9      | 1.46          | 2.73     | 0.78  | 0.3      | 14          | 7             | 10     | 10                     |



## Climatological Data for March, 1927

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                             |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                      |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                             |
| Belvidere.....                              | Warren.....     | 289             | 36                      | 42.5                         | +4.4                      | 79      | 17   | 17     | 2†   | 46                       | 1.68  | -2.17                     | 0.58                 | T.                        | 9                            | 20    | 2          | 9                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                           |
| Charlotteburg..                             | Passaic.....    | 719             | 35                      | 38.2                         | +2.4                      | 74      | 17   | 11     | 2    | 46                       | 1.52  | -2.68                     | 0.78                 | 1.0                       | 12                           | 5     | 5          | 21                           | w.        |                                                                                                                             |
| Culvers Lake..                              | Sussex.....     | 848             | 26                      | 40.0                         | +4.8                      | 75      | 17   | 10     | 2†   | 44                       | 1.85  | -1.62                     | 0.47                 | 2.7                       | 11                           | 16    | 5          | 10                           | e.        |                                                                                                                             |
| Dover.....                                  | Morris.....     | 600             | 43                      | 40.0                         | +4.8                      | 75      | 17   | 15     | 2†   | 44                       | 1.60  | -2.39                     | 0.56                 | 0.5                       | 9                            | 11    | 10         | 10                           | .....     |                                                                                                                             |
| Layton.....                                 | Sussex.....     | 480             | 26                      | 38.6                         | +3.0                      | 75      | 17†  | 9      | 2    | 47                       | 1.97  | -1.40                     | 0.69                 | 2.0                       | 10                           | 12    | 8          | 11                           | ne.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                        |
| Newton.....                                 | Sussex.....     | 769             | 43                      | 41.4 <sup>a</sup>            | +5.9                      | 79      | 18   | 13     | 2    | 39                       | 1.63  | -1.94                     | 0.49                 | T.                        | 10                           | 17    | 4          | 10                           | sw.       |                                                                                                                             |
| Phillipsburg..                              | Warren.....     | 363             | 44                      | 43.0                         | +4.9                      | 78      | 18   | 19     | 2    | 40                       | 1.35  | -2.19                     | 0.37                 | .....                     | 8                            | 18    | 5          | 8                            | .....     |                                                                                                                             |
| Sussex.....                                 | Sussex.....     | 442             | 32                      | 40.2                         | +3.9                      | 78      | 17   | 10     | 2    | 50                       | 2.11  | -1.48                     | 0.60                 | 1.5                       | 11                           | 15    | 4          | 12                           | w.        |                                                                                                                             |
| Means and extremes..                        |                 |                 |                         | 40.6                         | +4.2                      | 79      | 17†  | 9      | 2    | 50                       | 1.71  | -1.98                     | 0.78                 | 1.1                       | 10                           | 14    | 6          | 11                           | w.        |                                                                                                                             |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                             |
| Bergen Point...†                            | Hudson.....     | 37              | 30                      | 42.9                         | +3.4                      | 67      | 17   | 19     | 4    | 32                       | 1.43  | -2.57                     | 0.53                 | T.                        | 12                           | 9     | 16         | 6                            | nw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                            |
| Boonton.....                                | Morris.....     | 400             | 37                      | 38.9                         | +2.3                      | 75      | 18   | 12     | 3    | 46                       | 1.29  | -2.65                     | 0.46                 | .....                     | 9                            | 15    | 0          | 16                           | ne.       |                                                                                                                             |
| Chatham.....                                | Morris.....     | 185             | 23                      | 41.1 <sup>a</sup>            | +2.3                      | 75      | 18   | 12     | 3    | 46                       | 2.32  | -1.42                     | 0.65                 | .....                     | 11                           | 19    | 5          | 7                            | .....     |                                                                                                                             |
| Elizabeth.....                              | Union.....      | 45              | 48                      | 41.1 <sup>a</sup>            | +2.3                      | 75      | 18   | 12     | 3    | 46                       | 1.59  | -2.63                     | 0.51                 | T.                        | 12                           | 16    | 7          | 8                            | w.        |                                                                                                                             |
| Flemington.....                             | Hunterdon.....  | 140             | 41                      | 43.4                         | +3.3                      | 78      | 17†  | 17     | 4    | 46                       | 1.12  | -2.77                     | 0.31                 | T.                        | 11                           | 18    | 4          | 9                            | nw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                            |
| Highwood..                                  | Bergen.....     | 90              | 39                      | 40.1                         | +3.1                      | 70      | 18   | 15     | 4    | 40                       | 1.91  | -2.27                     | 0.62                 | 1.0                       | 10                           | 12    | 5          | 14                           | nw.       |                                                                                                                             |
| Jersey City.....                            | Hudson.....     | 10              | 29                      | 43.4                         | +4.2                      | 74      | 18   | 17     | 4    | 28                       | 1.25  | -2.90                     | 0.39                 | 0.1                       | 11                           | 10    | 11         | 10                           | nw.       |                                                                                                                             |
| Lambertville..                              | Hunterdon.....  | 370             | 40                      | 41.6 <sup>b</sup>            | +2.2                      | 75      | 17†  | 16     | 4    | 35                       | 1.38  | -2.65                     | 0.29                 | T.                        | 11                           | 16    | 2          | 13                           | s.        |                                                                                                                             |
| Little Falls.....                           | Passaic.....    | 180             | 24                      | 40.8                         | +2.8                      | 76      | 18   | 17     | 2†   | 43                       | 1.54  | -2.05                     | 0.61                 | .....                     | 10                           | 10    | 13         | 8                            | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.        |
| New Brunswick..                             | Middlesex.....  | 110             | 74                      | 41.9                         | +3.1                      | 79      | 18   | 16     | 4    | 42                       | 0.78  | -3.03                     | 0.28                 | T.                        | 10                           | 15    | 6          | 10                           | n.        |                                                                                                                             |
| New Milford..                               | Bergen.....     | 9               | 9                       | 41.9                         | +3.1                      | 79      | 18   | 16     | 4    | 42                       | 0.78  | -3.03                     | 0.28                 | T.                        | 10                           | 15    | 6          | 10                           | n.        |                                                                                                                             |
| Paterson.....                               | Passaic.....    | 80              | 56                      | 43.2 <sup>a</sup>            | +4.4                      | 73      | 18   | 19     | 4    | 37                       | 1.49  | -2.89                     | 0.58                 | 1.0                       | 9                            | 18    | 3          | 10                           | nw.       |                                                                                                                             |
| Plainfield.....                             | Union.....      | 120             | 39                      | 41.3                         | +2.5                      | 77      | 18   | 16     | 3†   | 44                       | 1.32  | -2.95                     | 0.50                 | 0.1                       | 10                           | 8     | 12         | 11                           | uw.       |                                                                                                                             |
| Ridgefield.....                             | Bergen.....     | 80              | 10                      | 40.4                         | .....                     | 69      | 18   | 15     | 4    | 35                       | 1.51  | .....                     | 0.76                 | T.                        | 10                           | 11    | 8          | 12                           | nw.       | George P. Kirsten.<br>H. B. TenEyck.<br>David M. Ach<br>Luther Davis.<br>Hackensack Water Co.                               |
| Somerville.....                             | Somerset.....   | 70              | 44                      | 42.4                         | +4.2                      | 80      | 18   | 16     | 4    | 49                       | 1.14  | -2.82                     | 0.48                 | 0.5                       | 8                            | 19    | 5          | 7                            | w.        |                                                                                                                             |
| South Orange..                              | Essex.....      | 200             | 57                      | 42.4                         | +4.2                      | 80      | 18   | 16     | 4    | 49                       | 1.14  | -2.82                     | 0.48                 | 0.5                       | 8                            | 19    | 5          | 7                            | w.        |                                                                                                                             |
| Verona.....                                 | Essex.....      | 490             | 1                       | 40.8                         | .....                     | 74      | 18   | 16     | 2†   | 32                       | 1.64  | .....                     | 0.37                 | 3.0                       | 11                           | 12    | 4          | 15                           | w.        |                                                                                                                             |
| Woodcliff Lake..                            | Bergen.....     | 100             | 9                       | 40.8                         | .....                     | 74      | 18   | 16     | 2†   | 32                       | 1.29  | .....                     | 0.35                 | .....                     | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                             |
| New York, N. Y. ....                        |                 | 365             | 57                      | 42.6                         | +4.9                      | 72      | 18   | 17     | 3    | 26                       | 1.18  | -2.92                     | 0.48                 | 0.2                       | 12                           | 9     | 10         | 12                           | nw.       | U. S. Weather Bureau.                                                                                                       |
| Means and extremes..                        |                 |                 |                         | 41.6                         | +3.2                      | 80      | 18   | 12     | 3    | 49                       | 1.44  | -2.58                     | 0.76                 | 0.5                       | 10                           | 14    | 7          | 10                           | nw.       |                                                                                                                             |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                             |
| Belleplain.....                             | Cape May.....   | 30              | 33                      | 42.2                         | +1.9                      | 80      | 18   | 20     | 4    | 37                       | 1.71  | -2.47                     | 0.72                 | .....                     | 6                            | 12    | 6          | 13                           | nw.       | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.<br>John G. Reutter.                                       |
| Bridgeton.....                              | Cumberland..... | 90              | 46                      | 44.2                         | +1.9                      | 80      | 18   | 20     | 4    | 37                       | 1.71  | -2.47                     | 0.72                 | .....                     | 6                            | 12    | 6          | 13                           | nw.       |                                                                                                                             |
| Burlington.....                             | Burlington..... | 12              | 41                      | 45.2                         | +4.8                      | 78      | 18   | 20     | 4    | 43                       | 1.30  | -2.41                     | 0.30                 | .....                     | 10                           | 12    | 6          | 13                           | nw.       |                                                                                                                             |
| Clayton.....                                | Gloucester..... | 130             | 30                      | 42.2                         | +4.8                      | 78      | 18   | 20     | 4    | 43                       | 1.30  | -2.41                     | 0.30                 | .....                     | 10                           | 12    | 6          | 13                           | nw.       |                                                                                                                             |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | 42.2                         | +4.8                      | 78      | 18   | 20     | 4    | 43                       | 1.30  | -2.41                     | 0.30                 | .....                     | 10                           | 12    | 6          | 13                           | nw.       | R. E. Montgomery.<br>Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                            |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | 43.2 <sup>b</sup>            | +2.8                      | 79      | 17†  | 14     | 4    | 47                       | 1.10  | -2.94                     | 0.23                 | .....                     | 10                           | 18    | 3          | 10                           | nw.       |                                                                                                                             |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 42.2                         | +3.1                      | 79      | 18   | 15     | 4    | 44                       | 1.08  | -3.00                     | 0.19                 | T.                        | 10                           | 16    | 9          | 6                            | nw.       |                                                                                                                             |
| Indian Mills..                              | Burlington..... | 76              | 38                      | 43.2                         | +2.7                      | 80      | 18   | 13     | 4    | 46                       | 2.73  | -1.30                     | 1.10                 | 0                         | 8                            | 10    | 6          | 15                           | nw.       |                                                                                                                             |
| Lakewood.....                               | Ocean.....      | 54              | 23                      | 42.1                         | +2.5                      | 81      | 18   | 16     | 4    | 39                       | 1.69  | -2.29                     | 0.90                 | T.                        | 10                           | 13    | 7          | 11                           | ne.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                         |
| Moorestown.....                             | Burlington..... | 75              | 64                      | 45.4                         | +6.2                      | 78      | 18   | 15     | 4    | 42                       | 1.09  | -2.67                     | 0.46                 | 0                         | 6                            | 17    | 4          | 10                           | sw.       |                                                                                                                             |
| Northfield..                                | Atlantic.....   | 25              | 20                      | 41.0                         | .....                     | 66      | 17†  | 15     | 4    | 39                       | 1.14  | -2.35                     | 0.45                 | 0.3                       | 9                            | ..... | .....      | .....                        | .....     |                                                                                                                             |
| Pleasantville..                             | Atlantic.....   | 26              | 29                      | 41.0                         | .....                     | 66      | 17†  | 15     | 4    | 39                       | 1.15  | -2.32                     | 0.49                 | .....                     | 10                           | 16    | 6          | 9                            | nw.       |                                                                                                                             |
| Riverton.....                               | Burlington..... | 18              | 1                       | 43.1                         | .....                     | 78      | 18   | 17     | 4    | 41                       | 1.14  | .....                     | 0.29                 | 0                         | 8                            | 16    | 3          | 12                           | .....     | Japanese Beetle Laboratory.<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Runyon..                                    | Middlesex.....  | 18              | 3                       | 39.8                         | .....                     | 81      | 18   | 13     | 4    | 48                       | 0.85  | .....                     | 0.24                 | .....                     | 9                            | 18    | 11         | 2                            | w.        |                                                                                                                             |
| Trenton.....                                | Mercer.....     | 190             | 55                      | 43.4                         | +4.3                      | 77      | 17   | 19     | 4    | 35                       | 0.83  | -3.21                     | 0.22                 | T.                        | 9                            | 9     | 10         | 12                           | nw.       |                                                                                                                             |
| Tuckerton.....                              | Ocean.....      | 23              | 34                      | 42.7                         | +2.7                      | 70      | 17   | 16     | 4    | 37                       | 2.04  | -2.21                     | 0.55                 | T.                        | 10                           | 20    | 9          | 2                            | e.        |                                                                                                                             |
| Vinceland.....                              | Cumberland..... | 109             | 58                      | 45.0                         | +4.5                      | 80      | 17†  | 18     | 4    | 40                       | 1.85  | -2.61                     | 0.43                 | 0                         | 6                            | 12    | 5          | 14                           | sw.       |                                                                                                                             |
| Philadelphia, Pa. ....                      |                 | 117             | 56                      | 46.4                         | +5.6                      | 77      | 18   | 23     | 3    | 27                       | 1.11  | -2.34                     | 0.26                 | T.                        | 10                           | 10    | 8          | 13                           | n.        | U. S. Weather Bureau.                                                                                                       |
| Means and extremes..                        |                 |                 |                         | 43.1                         | +3.6                      | 81      | 18   | 13     | 4    | 48                       | 1.37  | -2.48                     | 1.10                 | T.                        | 9                            | 14    | 7          | 10                           | nw.       |                                                                                                                             |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                             |
| Asbury Park.....                            | Monmouth.....   | 22              | 38                      | 40.2 <sup>d</sup>            | +1.2                      | 74      | 18   | 20     | 3†   | 30                       | 1.60  | -2.63                     | 0.70                 | 0                         | 9                            | 18    | 8          | 5                            | ne.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                              |
| Atlantic City.....                          | Atlantic.....   | 16              | 54                      | 42.4                         | +3.8                      | 66      | 18   | 19     | 4    | 23                       | 1.28  | -2.45                     | 0.45                 | T.                        | 10                           | 12    | 10         | 9                            | s.        |                                                                                                                             |
| Cape May City.....                          | Cape May.....   | 17              | 43                      | 42.8                         | +2.0                      | 61      | 31   | 21     | 3†   | 23                       | 1.53  | -2.20                     | 0.52                 | 0.5                       | 10                           | ..... | .....      | .....                        | nw.       |                                                                                                                             |
| Sandy Hook.....                             | Monmouth.....   | 22              | 29                      | 41.0                         | +4.0                      | 70      | 18   | 21     | 3    | 28                       | 1.29  | -2.95                     | 0.41                 | T.                        | 11                           | 8     | 12         | 11                           | w.        |                                                                                                                             |
| Means and extremes..                        |                 |                 |                         | 41.6                         | +2.8                      | 74      | 18   | 19     | 4    | 30                       | 1.42  | -2.56                     | 0.70                 | 0.1                       | 10                           | 13    | 10         | 8                            | nw.       |                                                                                                                             |
| For the State.....                          |                 |                 |                         | 41.9                         | +3.3                      | 81      | 18   | 9      | 2    | 50                       | 1.46  | -2.42                     | 1.10                 | 0.3                       | 10                           | 14    | 7          | 10                           | nw.       |                                                                                                                             |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for March, 1927

| Stations                                   | Drainage Basin  | Day of month |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      | Total |      |
|--------------------------------------------|-----------------|--------------|---|---|---|---|-----|-----|-----|-----|----|----|----|-----|-----|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|
|                                            |                 | 1            | 2 | 3 | 4 | 5 | 6   | 7   | 8   | 9   | 10 | 11 | 12 | 13  | 14  | 15 | 16 | 17  | 18  | 19  | 20   | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Belvidere.....                             | Delaware.....   |              |   |   |   |   | .10 |     | .15 |     |    |    |    | .26 |     |    |    |     | .28 | .10 | .58  |     |     |     |     |     | .03 | .10 |     |     |     | .08  | 1.68  |      |
| Charlotteburg.....                         | Passaic.....    |              |   |   |   |   | .05 | *   | .23 |     |    |    |    | .12 | .01 |    |    |     | .03 | *   | .78  |     |     |     |     |     | *   | .22 |     |     | *   | .08  | 1.52  |      |
| Culvers Lake.....                          | Delaware.....   |              |   |   |   |   | .04 | .01 | .18 |     |    |    |    | .22 |     |    |    |     | .28 | .20 | .47  |     |     |     | T.  |     | .18 | .20 |     | T.  | .05 | .02  | 1.85  |      |
| Dover.....                                 | Passaic.....    |              |   |   |   |   | .08 |     | .23 |     |    |    |    | .12 |     |    |    |     | .28 | *   | .56  | T.  |     |     |     |     | *   | .19 |     | T.  | .14 |      | 1.60  |      |
| Layton.....                                | Delaware.....   |              |   |   |   |   | .08 | T.  | .14 |     |    |    |    | .09 |     |    |    |     | .69 | .16 | .41  | T.  |     |     |     |     | *   | .18 | T.  |     | .20 | .02  | 1.97  |      |
| Newton.....                                | Delaware.....   |              |   |   |   |   | .08 |     | .08 |     |    |    |    | .26 |     |    |    |     | .22 | .18 | .45  |     |     |     |     |     | .10 | .12 |     | T.  | .06 | .04  | 1.63  |      |
| Phillipsburg.....                          | do.....         |              |   |   |   |   | T.  | T.  | .16 |     |    |    |    | .22 |     |    |    | T.  | .29 | .11 | .37  |     |     |     |     |     | .08 | .02 |     |     |     |      | 1.35  |      |
| Sussex.....                                | Hudson.....     |              |   |   |   |   | .06 | .07 | .28 |     |    |    |    | .19 |     |    |    |     | .27 | .22 | .60  |     |     |     |     |     | .08 | .15 |     |     | .06 | .13  | 2.11  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Bergen Point**.....                        | Coast.....      |              |   |   |   |   | .04 | .11 | .08 | T.  |    |    |    | .05 |     |    |    | .08 | .12 | .18 | .53  | .02 |     |     |     |     | .10 | .05 |     |     | .07 |      | 1.43  |      |
| Boonton   .....                            | Passaic.....    |              |   |   |   |   |     | .03 | .18 |     |    |    |    |     | .05 |    |    |     |     | .20 | .46  | .14 |     |     |     |     |     | .02 | .10 | T.  |     | .11  | 1.29  |      |
| Chatham   .....                            | do.....         |              |   |   |   |   |     | .65 | .14 | .07 |    |    |    |     | .15 |    |    |     |     | .10 | .16  | .59 | .09 |     |     |     |     | .10 | .13 |     |     | .14  | 2.32  |      |
| Elizabeth.....                             | Coast.....      |              |   |   |   |   | .05 | T.  | .21 |     |    |    |    | .03 | T.  |    |    |     | .28 | .11 | .51  | .02 |     |     |     |     | .04 | .23 | .02 |     | .06 | .03  | 1.59  |      |
| Flemington.....                            | Raritan.....    |              |   |   |   |   | .05 |     | .13 |     |    |    |    | .09 |     |    |    |     | .11 | .10 | .31  |     |     |     |     |     | .08 | .07 | .02 |     |     | .08  | .08   | 1.12 |
| Highwood.....                              | Hackensack..... |              |   |   |   |   | .04 |     | .29 |     |    |    |    | .05 |     |    |    | .07 | .18 | .11 | .62  |     |     | T.  |     |     | *   | .42 | T.  |     | .13 |      | 1.91  |      |
| Jersey City.....                           | Coast.....      |              |   |   |   |   | .05 |     | .16 |     |    |    |    | .02 |     |    |    | .07 | .12 | .15 | .39  | .03 |     | T.  |     |     | .17 | .04 |     |     | T.  | .05  |       | 1.25 |
| Lambertville.....                          | Delaware.....   |              |   |   |   |   | .03 |     | .17 |     |    |    |    | .28 |     |    |    |     | .16 | *   | .22  | .04 |     | T.  |     |     | .11 | .04 | .04 |     | .28 | .01  | 1.38  |      |
| Little Falls.    .....                     | Passaic.....    |              |   |   |   |   |     | .05 | .19 | T.  |    |    |    |     | .07 |    |    |     |     | .15 | .61  | .10 |     | T.  |     |     |     | .16 | .06 |     |     | .15  |       | 1.54 |
| New Brunswick.....                         | Raritan.....    |              |   |   |   |   | .01 |     | .12 |     |    |    |    | .06 |     |    |    |     | .08 | .02 | .28  | T.  |     |     |     |     | .03 | .07 | .01 |     | .10 |      | .07   |      |
| New Milford.**.....                        | Hackensack..... |              |   |   |   |   | .02 |     | .20 |     |    |    |    | .02 |     |    |    | *   | .20 | .16 | .44  |     |     |     |     |     | .06 | .19 |     |     | .11 |      | 1.40  |      |
| Paterson.....                              | Passaic.....    |              |   |   |   |   | .02 | .02 | .18 |     |    |    |    | .04 |     |    |    | T.  | .14 | .10 | .58  | .04 |     |     |     |     | .18 | .07 |     |     | .12 |      | 1.49  |      |
| Plainfield.....                            | Raritan.....    |              |   |   |   |   | .05 |     | .10 |     |    |    |    | .02 |     |    |    | .29 | .12 | .05 | .50  | .02 |     | T.  |     |     | .07 | .04 |     |     | T.  | .06  |       | 1.32 |
| Ridgefield.....                            | Hackensack..... |              |   |   |   |   | .04 | *   | .29 |     |    |    |    | .01 |     |    |    | .03 | .15 | *   | .76  |     |     | T.  |     |     | .18 | T.  |     |     | .05 |      | 1.51  |      |
| Somerville.....                            | Raritan.....    |              |   |   |   |   | T.  |     | .18 |     |    |    |    | .16 |     |    |    | T.  | .08 | .04 | .48  |     |     |     |     |     | .04 | .09 |     |     | .07 |      | 1.14  |      |
| South Orange.....                          | Rahway.....     |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Verona**.....                              | Passaic.....    |              |   |   |   |   | .09 | .04 | .19 |     |    |    |    | .08 |     |    |    | .04 | .16 | .23 | .37  |     |     | T.  | T.  |     | .21 | .11 |     |     | .12 |      | 1.64  |      |
| Woodcliff Lake**.....                      | Hackensack..... |              |   |   |   |   | .05 |     | .19 |     |    |    |    | .03 |     |    |    | .19 | .13 | .35 |      |     |     |     |     |     | .19 | .02 |     |     | .14 |      | 1.29  |      |
| New York, N. Y***.....                     | Coast.....      |              |   |   |   |   | .04 | .03 | .13 |     |    |    |    | .03 |     |    |    | .07 | .12 | .17 | .32  | .02 |     | T.  |     |     | .16 | .04 |     | T.  | .05 |      | 1.18  |      |
| <i>The Southern Interior.</i>              |                 |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     | .21 | .72 |      |     |     |     |     |     | .53 |     |     |     | .15 |      | 1.71  |      |
| Bridgeton.....                             | Coast.....      |              |   |   |   |   | T.  |     | *   |     |    |    |    | .10 |     |    |    |     |     |     |      |     |     |     |     |     | .08 |     |     |     | .11 | .07  | 1.30  |      |
| Burlington.....                            | Delaware.....   |              |   |   |   |   | T.  |     | .20 |     |    |    |    | .30 |     |    |    |     | .02 | .25 | .14  | .11 |     |     |     |     |     | .02 | T.  |     |     |      |       |      |
| Clayton.....                               | Delaware.....   |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Hammononton.....                           | Mullica.....    |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Hightstown.....                            | Raritan.....    |              |   |   |   |   | T.  |     | .16 |     |    |    |    | .11 |     |    |    | .19 | .05 | .23 | .06  |     |     |     |     | T.  | .05 | .04 |     |     | .16 | .05  | 1.10  |      |
| Imlaystown.....                            | Delaware.....   |              |   |   |   |   |     |     | .19 |     |    |    |    | .16 |     |    |    |     | .14 | .07 | .19  | .11 |     |     |     |     |     | .06 |     |     | .09 | .07  | 1.08  |      |
| Indian Mills.....                          | Mullica.....    |              |   |   |   |   | T.  |     | .19 |     |    |    |    | .30 |     |    |    | .22 | .30 | .42 | 1.10 |     |     |     |     |     | .05 |     |     |     | .15 |      | 2.73  |      |
| Lakewood.....                              | Metedeconk..... |              |   |   |   |   |     |     | .15 |     |    |    |    | .07 |     |    |    | .15 | *   | .24 | .90  |     |     | T.  |     |     | .02 | .05 |     |     | .07 | .04  | 1.69  |      |
| Moorestown.....                            | Delaware.....   |              |   |   |   |   | .15 |     | .15 |     |    |    |    | .06 |     |    |    | .22 |     | .46 |      |     |     |     |     |     | .02 |     | T.  |     | .18 |      | 1.09  |      |
| Northfield.....                            | Coast.....      |              |   |   |   |   | .10 |     | .10 |     |    |    |    | .19 |     |    |    |     | .22 | .01 | .45  |     |     |     | .03 | *   | .12 |     |     | T.  | .02 | 1.14 |       |      |
| Pleasantville   .....                      | Coast.....      |              |   |   |   |   | T.  |     | .01 |     |    |    |    |     | .28 |    |    | T.  | .26 | .01 | .49  |     |     | .02 | T.  | *   | .01 | T.  |     |     | .07 | 1.15 |       |      |
| Riverton   .....                           | Delaware.....   |              |   |   |   |   |     |     | .17 | .02 |    |    |    |     | .08 |    |    |     |     | .20 | .09  | .29 | T.  |     |     |     |     | .08 | T.  |     |     | .21  | 1.14  |      |
| Runyon.....                                | Coast.....      |              |   |   |   |   |     |     | .09 |     |    |    |    | .06 |     |    |    | .12 | .06 | .24 | .07  |     |     |     |     |     | .04 | .06 |     |     | .11 |      | 0.85  |      |
| Trenton**.....                             | Delaware.....   |              |   |   |   |   | T.  |     | T.  | T.  |    |    |    | .08 |     |    |    | T.  | .15 | .09 | .14  | .04 |     | T.  |     |     | .02 | .02 |     | T.  | .17 |      | 0.83  |      |
| Tuckerton.....                             | Coast.....      |              |   |   |   |   |     |     | .15 |     |    |    |    | .20 |     |    |    | *   | .45 | .50 | .55  |     |     | T.  |     |     | .10 | .02 | .05 |     | .02 | T.   | 2.04  |      |
| Vineland.....                              | Maurice.....    |              |   |   |   |   | .13 |     | .13 |     |    |    |    | .30 |     |    |    | .24 | .43 | .11 |      |     |     |     |     |     | .08 |     |     |     | .06 |      | 1.35  |      |
| Phila., Pa***.....                         | Delaware.....   |              |   |   |   |   | T.  | T.  | .19 |     |    |    |    | .12 |     |    |    | .24 | .03 | .23 | .03  | T.  |     |     |     |     | .06 | .01 | .02 |     | .18 |      | 1.11  |      |
| <i>The Sea Coast.</i>                      |                 |              |   |   |   |   |     |     |     |     |    |    |    |     |     |    |    |     |     |     |      |     |     |     |     |     |     |     |     |     |     |      |       |      |
| Asbury Park.....                           | Coast.....      |              |   |   |   |   |     |     | .12 |     |    |    |    | .10 |     |    |    |     | .08 | .15 | .70  | .20 |     |     |     |     | .05 | .05 |     |     | .15 |      | 1.60  |      |
| Atlantic City***.....                      | do.....         |              |   |   |   |   | T.  | .06 | .04 |     |    |    |    | .22 |     |    |    | .01 | .26 | T.  | .13  | .32 |     | .05 |     | .14 | T.  |     |     |     | .05 | T.   | 1.28  |      |
| Cape May City.....                         | do.....         |              |   |   |   |   | T.  |     | .10 |     |    |    |    | .52 |     |    |    | .09 | .02 | .04 | .17  | .31 | T.  |     | .11 |     | .16 |     |     |     | T.  | .01  | 1.53  |      |
| Sandy Hook***.....                         | do.....         |              |   |   |   |   | T.  |     | .01 | .14 |    |    |    | .16 |     |    |    | .28 | .15 | .10 | .18  | .09 |     | T.  |     | .04 | .06 |     |     | .08 |     | 1.29 |       |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 30.11        | 30.53   | 11   | 29.50  | 8    | 18.0            | 60             | ne.       | 2    | 82                                     | 70                                        | 77                                      | 58            |
| New York, N. Y.....   | 30.11        | 30.54   | 11   | 29.46  | 8    | 15.6            | 64             | nw.       | 8    | 72                                     | 57                                        | 65                                      | 57            |
| Philadelphia, Pa..... | 30.13        | 30.55   | 11   | 29.54  | 8    | 9.9             | 42             | n.        | 2    | 81                                     | 76                                        | 78                                      | 52            |
| Ridgefield.....       | 30.11        | 30.55   | 11   | 29.46  | 8    |                 |                |           |      |                                        |                                           |                                         |               |
| Riverton.....         |              |         |      |        |      |                 |                |           |      | 78                                     | 56                                        | 67                                      |               |
| Sandy Hook.....       | 30.10        | 30.53   | 12   | 29.44  | 8    | 14.5            | 61             | n.        | 2    | 78                                     | 64                                        | 71                                      | 60            |
| Trenton.....          | 30.11        | 30.52   | 11   | 29.49  | 8    | 11.1            | 48             | nw.       | 8    | 76                                     | 54                                        | 65                                      | 56            |
| Verona.....           | 30.12        | 30.53   | 11   | 29.45  | 8    | 5.9             | 28             | w.        | 8    | 78*                                    | 54                                        | 69                                      |               |

\* 7 a. m.



## Daily Temperatures for March, 1927

| Stations                             | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | Mean              |                   |      |
|--------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|------|
| The Highlands and Kittatinny Valley. |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |
| Belvidere.....                       | Maximum | 43 | 37 | 33 | 42 | 54 | 47 | 53 | 51 | 53 | 57 | 64 | 65 | 71 | 63 | 64 | 74 | 79 | 77 | 66 | 55 | 45 | 49 | 48 | 40 | 56 | 46 | 39 | 53 | 55 | 52 | 64                | 54.7              |      |
|                                      | Minimum | 22 | 17 | 18 | 17 | 25 | 30 | 35 | 38 | 33 | 23 | 23 | 25 | 25 | 47 | 41 | 28 | 33 | 49 | 38 | 37 | 37 | 37 | 23 | 22 | 25 | 28 | 33 | 28 | 33 | 27 | 38                | 30.3 <sup>a</sup> |      |
| Charlotteburg.....                   | Maximum | 35 | 33 | 30 | 35 | 49 | 47 | 50 | 50 | 45 | 50 | 61 | 59 | 67 | 55 | 56 | 68 | 74 | 72 | 71 | 60 | 45 | 42 | 40 | 45 | 49 | 47 | 35 | 45 | 49 | 47 | 44                | 50.2              |      |
|                                      | Minimum | 18 | 11 | 13 | 12 | 25 | 28 | 33 | 38 | 31 | 17 | 15 | 28 | 33 | 40 | 36 | 25 | 29 | 38 | 34 | 39 | 32 | 36 | 21 | 20 | 22 | 19 | 22 | 17 | 23 | 20 | 34                | 26.1              |      |
| Dover.....                           | Maximum | 38 | 35 | 22 | 37 | 51 | 40 | 50 | 51 | 48 | 53 | 61 | 61 | 67 | 58 | 58 | 69 | 75 | 74 | 63 | 54 | 42 | 45 | 41 | 36 | 50 | 45 | 38 | 50 | 53 | 48 | 59                | 50.7              |      |
|                                      | Minimum | 21 | 15 | 16 | 15 | 26 | 33 | 38 | 37 | 33 | 20 | 21 | 25 | 37 | 43 | 39 | 30 | 31 | 47 | 38 | 38 | 34 | 32 | 23 | 23 | 24 | 25 | 30 | 23 | 29 | 25 | 40                | 29.4              |      |
| Layton.....                          | Maximum | 33 | 35 | 27 | 35 | 48 | 35 | 48 | 48 | 42 | 51 | 59 | 60 | 65 | 68 | 56 | 68 | 75 | 75 | 62 | 56 | 40 | 42 | 41 | 36 | 50 | 41 | 37 | 51 | 50 | 48 | 57                | 49.3              |      |
|                                      | Minimum | 21 | 9  | 18 | 14 | 19 | 26 | 32 | 36 | 34 | 14 | 19 | 23 | 36 | 46 | 42 | 25 | 28 | 46 | 52 | 37 | 35 | 33 | 18 | 20 | 20 | 25 | 32 | 27 | 28 | 22 | 37                | 27.9              |      |
| Newton.....                          | Maximum | 37 | 34 | 31 | 36 | 50 | 42 | 49 | 53 | 45 | 49 | 62 | 60 | 68 | 61 | 57 | 67 | 76 | 79 | 66 | 54 | 43 | 44 | 41 | 36 | 49 | 43 | 44 | 51 | 52 | 49 | 56                | 51.1              |      |
|                                      | Minimum | 21 | 13 | 17 | 14 | 27 | 34 | 37 | 32 | 30 | 23 | 27 | 43 | 46 | 38 | 31 | 37 | 52 | 38 | 39 | 40 | 37 | 25 | 28 | 33 | 30 | 33 | 32 | 29 | 36 | 31 | 32                | 31.8 <sup>b</sup> |      |
| Phillipsburg.....                    | Maximum | 43 | 38 | 37 | 46 | 54 | 48 | 51 | 51 | 50 | 54 | 61 | 62 | 68 | 62 | 64 | 71 | 72 | 78 | 61 | 59 | 44 | 44 | 44 | 37 | 54 | 44 | 43 | 52 | 57 | 56 | 63                | 53.8              |      |
|                                      | Minimum | 23 | 19 | 20 | 20 | 28 | 32 | 34 | 38 | 34 | 25 | 25 | 30 | 41 | 47 | 37 | 31 | 35 | 51 | 43 | 41 | 38 | 32 | 26 | 26 | 27 | 32 | 33 | 31 | 34 | 31 | 32                | 32.1              |      |
| Sussex.....                          | Maximum | 37 | 35 | 30 | 37 | 51 | 44 | 50 | 50 | 48 | 47 | 61 | 61 | 66 | 60 | 56 | 68 | 78 | 75 | 70 | 52 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43                | 51.6 <sup>a</sup> |      |
|                                      | Minimum | 21 | 10 | 17 | 14 | 25 | 26 | 33 | 36 | 34 | 20 | 20 | 25 | 36 | 44 | 39 | 25 | 28 | 46 | 34 | 37 | 35 | 37 | 22 | 23 | 24 | 35 | 32 | 26 | 28 | 24 | 39                | 28.9              |      |
| The Red Sandstone Plain.             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |
| Bergen Point.....                    | Maximum | 40 | 33 | 31 | 39 | 53 | 46 | 47 | 53 | 49 | 61 | 56 | 61 | 66 | 64 | 61 | 62 | 67 | 65 | 61 | 53 | 43 | 47 | 43 | 37 | 49 | 45 | 37 | 51 | 53 | 50 | 61                | 51.1              |      |
|                                      | Minimum | 24 | 20 | 20 | 19 | 29 | 39 | 37 | 43 | 36 | 29 | 29 | 34 | 40 | 46 | 43 | 36 | 45 | 53 | 45 | 43 | 37 | 39 | 28 | 27 | 30 | 32 | 35 | 28 | 35 | 39 | 34.4              |                   |      |
| Boonton§§.....                       | Maximum | 38 | 34 | 27 | 38 | 50 | 42 | 50 | 52 | 47 | 56 | 60 | 59 | 68 | 57 | 58 | 68 | 73 | 75 | 62 | 55 | 43 | 45 | 43 | 38 | 51 | 47 | 36 | 52 | 51 | 50 | 58                | 51.1              |      |
|                                      | Minimum | 17 | 15 | 12 | 15 | 18 | 28 | 28 | 35 | 31 | 33 | 19 | 21 | 28 | 39 | 39 | 27 | 27 | 36 | 38 | 33 | 33 | 34 | 23 | 22 | 24 | 22 | 30 | 18 | 28 | 22 | 29                | 26.7              |      |
| Elizabeth.....                       | Maximum | 42 | 37 | 35 | 40 | 53 | 52 | 54 | 54 | 68 | 52 | 61 | 61 | 69 | 65 | 64 | 71 | 78 | 78 | 70 | 54 | 50 | 49 | 42 | 37 | 55 | 47 | 37 | 53 | 53 | 53 | 65                | 55.0              |      |
|                                      | Minimum | 19 | 20 | 19 | 15 | 21 | 34 | 34 | 41 | 36 | 29 | 23 | 27 | 39 | 43 | 43 | 40 | 32 | 48 | 38 | 39 | 36 | 41 | 27 | 27 | 29 | 27 | 33 | 24 | 34 | 28 | 31                | 31.7 <sup>b</sup> |      |
| Flemington.....                      | Maximum | 44 | 37 | 34 | 44 | 57 | 49 | 55 | 53 | 53 | 59 | 64 | 65 | 69 | 65 | 65 | 64 | 71 | 78 | 78 | 70 | 54 | 50 | 49 | 42 | 37 | 55 | 47 | 37 | 53 | 53 | 53                | 65                | 55.0 |
|                                      | Minimum | 20 | 19 | 20 | 17 | 27 | 34 | 35 | 42 | 33 | 24 | 23 | 28 | 37 | 46 | 42 | 30 | 32 | 49 | 43 | 44 | 37 | 40 | 26 | 26 | 26 | 26 | 23 | 33 | 28 | 34 | 27                | 36                | 31.8 |
| Highwood.....                        | Maximum | 37 | 34 | 29 | 38 | 52 | 41 | 52 | 53 | 48 | 51 | 56 | 60 | 67 | 62 | 60 | 66 | 69 | 74 | 67 | 54 | 45 | 47 | 43 | 40 | 49 | 46 | 38 | 49 | 53 | 50 | 59                | 50.8              |      |
|                                      | Minimum | 18 | 18 | 18 | 15 | 22 | 31 | 29 | 39 | 33 | 21 | 26 | 39 | 43 | 42 | 27 | 29 | 44 | 37 | 37 | 36 | 36 | 25 | 26 | 29 | 22 | 32 | 23 | 27 | 28 | 37 | 29.4              |                   |      |
| Jersey City.....                     | Maximum | 40 | 35 | 29 | 40 | 51 | 47 | 54 | 53 | 49 | 53 | 56 | 58 | 66 | 65 | 62 | 69 | 69 | 74 | 62 | 54 | 45 | 47 | 43 | 40 | 49 | 46 | 38 | 49 | 53 | 50 | 61                | 51.8              |      |
|                                      | Minimum | 24 | 20 | 19 | 17 | 30 | 37 | 40 | 39 | 38 | 30 | 34 | 35 | 41 | 47 | 42 | 41 | 46 | 50 | 46 | 39 | 37 | 36 | 30 | 29 | 29 | 31 | 34 | 30 | 35 | 37 | 40                | 34.9              |      |
| Lambertville.....                    | Maximum | 38 | 35 | 31 | 40 | 52 | 47 | 52 | 50 | 48 | 53 | 60 | 63 | 66 | 59 | 70 | 75 | 75 | 67 | 57 | 43 | 47 | 41 | 36 | 52 | 46 | 38 | 48 | 50 | 53 | 59 | 51.6 <sup>a</sup> |                   |      |
|                                      | Minimum | 19 | 18 | 18 | 16 | 28 | 35 | 35 | 42 | 33 | 25 | 25 | 32 | 37 | 42 | 42 | 40 | 49 | 43 | 41 | 36 | 37 | 25 | 25 | 25 | 29 | 32 | 27 | 34 | 30 | 42 | 31.7 <sup>b</sup> |                   |      |
| Little Falls§§.....                  | Maximum | 36 | 35 | 29 | 38 | 50 | 44 | 56 | 54 | 45 | 51 | 62 | 70 | 63 | 61 | 70 | 73 | 76 | 61 | 58 | 43 | 47 | 41 | 37 | 51 | 47 | 38 | 54 | 54 | 51 | 60 | 51.8              |                   |      |
|                                      | Minimum | 18 | 17 | 17 | 17 | 23 | 31 | 34 | 39 | 36 | 23 | 22 | 25 | 37 | 42 | 41 | 28 | 30 | 41 | 39 | 38 | 35 | 38 | 26 | 25 | 27 | 24 | 22 | 23 | 28 | 27 | 35                | 29.7              |      |
| New Brunswick.....                   | Maximum | 38 | 37 | 34 | 39 | 53 | 49 | 53 | 52 | 49 | 51 | 57 | 61 | 68 | 63 | 59 | 69 | 73 | 79 | 75 | 54 | 43 | 47 | 43 | 36 | 51 | 50 | 36 | 48 | 50 | 54 | 60                | 52.6              |      |
|                                      | Minimum | 20 | 19 | 18 | 16 | 24 | 34 | 32 | 42 | 34 | 23 | 24 | 26 | 35 | 45 | 43 | 32 | 31 | 45 | 44 | 42 | 37 | 40 | 27 | 27 | 27 | 27 | 34 | 25 | 31 | 29 | 35                | 31.2              |      |
| Paterson.....                        | Maximum | 41 | 36 | 33 | 41 | 55 | 45 | 54 | 54 | 50 | 55 | 58 | 65 | 70 | 64 | 63 | 71 | 71 | 73 | 72 | 57 | 46 | 50 | 44 | 38 | 53 | 48 | 37 | 55 | 54 | 51 | 61                | 58.7              |      |
|                                      | Minimum | 23 | 20 | 20 | 19 | 27 | 33 | 35 | 41 | 37 | 28 | 27 | 28 | 45 | 43 | 36 | 49 | 45 | 42 | 46 | 39 | 39 | 27 | 26 | 29 | 30 | 33 | 26 | 33 | 31 | 41 | 52.7 <sup>b</sup> |                   |      |
| Plainfield.....                      | Maximum | 39 | 34 | 29 | 40 | 51 | 45 | 53 | 53 | 49 | 51 | 54 | 62 | 70 | 65 | 63 | 68 | 75 | 77 | 61 | 55 | 44 | 48 | 42 | 37 | 52 | 46 | 36 | 52 | 54 | 50 | 61                | 52.1              |      |
|                                      | Minimum | 18 | 18 | 16 | 16 | 24 | 36 | 35 | 34 | 36 | 24 | 25 | 29 | 36 | 44 | 41 | 29 | 31 | 44 | 43 | 38 | 37 | 36 | 26 | 26 | 26 | 26 | 32 | 23 | 29 | 28 | 37                | 30.5              |      |
| Ridgefield.....                      | Maximum | 37 | 34 | 29 | 38 | 52 | 41 | 52 | 53 | 48 | 51 | 56 | 60 | 65 | 62 | 63 | 66 | 68 | 69 | 60 | 53 | 39 | 47 | 41 | 37 | 50 | 47 | 36 | 51 | 53 | 50 | 61                | 50.6              |      |
|                                      | Minimum | 19 | 20 | 19 | 15 | 22 | 31 | 29 | 39 | 33 | 22 | 22 | 27 | 39 | 42 | 42 | 31 | 33 | 47 | 44 | 38 | 36 | 31 | 26 | 28 | 27 | 28 | 26 | 30 | 31 | 35 | 30.3              |                   |      |
| Somerville.....                      | Maximum | 41 | 38 | 35 | 41 | 55 | 47 | 55 | 53 | 50 | 56 | 64 | 65 | 71 | 66 | 60 | 71 | 78 | 80 | 72 | 57 | 46 | 49 | 43 | 40 | 54 | 49 | 37 | 54 | 54 | 54 | 62                | 55.2 <sup>a</sup> |      |
|                                      | Minimum | 17 | 19 | 20 | 16 | 20 | 34 | 29 | 41 | 35 | 22 | 20 | 25 | 33 | 42 | 43 | 27 | 29 | 46 | 41 | 39 | 37 | 40 | 26 | 26 | 26 | 25 | 31 | 26 | 29 | 24 | 31                | 29.6              |      |
| South Orange.....                    | Maximum | 35 | 33 | 27 | 36 | 50 | 44 | 51 | 52 | 46 | 49 | 57 | 60 | 65 | 63 | 57 | 66 | 69 | 74 | 64 | 52 | 41 | 45 | 39 | 35 | 47 | 45 | 35 | 49 | 50 | 50 | 56                | 49.7              |      |
|                                      | Minimum | 19 | 16 | 16 | 16 | 28 | 36 | 37 | 39 | 34 | 26 | 27 | 33 | 38 | 47 | 40 | 34 | 39 | 49 | 44 | 40 | 34 | 34 | 24 | 24 | 26 | 29 | 32 | 31 | 40 | 40 | 40                | 31.9              |      |
| New York, N. Y.....                  | Maximum | 38 | 34 | 28 | 39 | 50 | 45 | 52 | 52 | 47 | 51 | 54 | 55 | 62 | 62 | 60 | 67 | 65 | 72 | 60 | 53 | 41 | 46 | 42 | 39 | 47 | 45 | 38 | 49 | 51 | 48 | 58                | 50.1              |      |
|                                      | Minimum |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |      |



## U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXII.

APRIL, 1927.

No. 4

## GENERAL SUMMARY.

The month of April was consistently subnormal in warmth, except the third week, when persistently warm weather prevailed, culminating on the 20th, with temperatures very generally in the 90's; except along the immediate coast. This was followed by reactionary thundershowers on the 21st, when the heaviest rain in several months occurred. The mean temperatures of April this year and last year were the lowest recorded since 1911, and were in marked contrast with April 1921, which was the warmest ever recorded in New Jersey. The general progression of the temperature march was upward, except that a cool period on the 23d-24th rendered the last week of the month cooler than the 2d and 3d weeks, but did not prove to be a serious check to vegetation. Scattered occurrences of frost on the 25th in southern counties damaged the bloom of peach trees and strawberry patches located in peculiarly susceptible situations. The cold ground retarded the germination of seed to a moderate but unimportant extent.

Except for the heavy thundershowers on the 21st-22d, the rainfall was light, and practically none fell from the 7th to the 16th, and the need of moisture was then becoming somewhat more pronounced, but the persistence of the low temperatures prevented the need of rain from becoming acute. A few stations reported a light fall of snow on the 2d, but it was unimportant.

More than the usual amount of fair weather prevailed, without any outstanding wind turbulence.

Storm warnings were displayed along the coast on the 1st, 9th and 26th.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 47.5°, which was 1.9° below normal. The highest temperature was 93° at Runyon and Somerville on the 20th, and the lowest 17° at Runyon on the 10th. The greatest daily range of temperature was 46° at Layton on the 15th, and at Runyon on the 11th, 12th, and 15th. The highest monthly mean temperature was 50.7° at Vineland, and the lowest, 44.7° at Charlotteburg and Layton.

The temperature departure from the normal for the year 1927, to date, by sections, is: The Highlands, +2.3°; Red Sandstone Plain, +1.5°; Southern Interior, +1.9°; Sea Coast, +1.8°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 2.42 inches, which was 1.25 inches below normal. The average total snowfall at twenty-two selected stations was 0.3 inch, which was 1.2 inches below normal.

The greatest monthly precipitation was 3.97 inches at Moorestown, and the least, 1.00 inch at Northfield. The greatest amount of precipitation in any 24 consecutive hours was 2.58 inches at Moorestown on the 21st-22d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9 or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -4.21 inches; Red Sandstone Plain, -6.36 inches; Southern Interior, -5.38 inches; Sea Coast, -5.86 inches.

## WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 13 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 51 miles per hour from the northeast at Atlantic City on the 2d.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 14, which was 2 more than normal; partly cloudy, 7, or 2 less than normal; cloudy, 9, or normal. The per cent of possible sunshine was 60, which was 3 per cent above normal.

## MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 3.6 feet, and the highest 4.7 feet on the 26th. At Trenton the mean daily stage was 2.2 feet, which was 1.7 feet below normal, the highest stage was 3.1 feet on the 29th.

The mean atmospheric pressure, reduced to sea level, was 30.08 inches, which was 0.08 inch above normal. The highest reading was 30.54 inches at Verona and Sandy Hook on the 15th, and the lowest, 29.41 inches at Atlantic City on the 27th.

Dense fog was reported on the 18th. Sleet fell on the 1st, 2d, 5th and 13th. Thunderstorms occurred on the 2d, 5th, 21st, 22d, 26th and 27th. Solar halos were observed on the 8th, 9th, 16th, 26th and 29th, and a lunar halo on the 8th. An aurora was observed at Layton on the 12th. The last killing frost of the season occurred on the 25th and in some instances the next few following days throughout the interior portions of the State.

Light hail with no damage fell at Burlington on the 5th and at Asbury Park on the 21st.

## COMPARATIVE DATA FOR APRIL

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 48.4        | 88      | 26     | 2.79          | 2.86      | 0.89  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 50.6        | 86      | 27     | 3.40          | 5.48      | 1.86  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 47.3        | 87      | 16     | 2.70          | 3.77      | 0.91  | .....    | .....       | .....         | 12     | 7                      |
| 1888..... | 47.9        | 92      | 22     | 3.28          | 4.68      | 1.89  | .....    | .....       | .....         | 6      | 9                      |
| 1889..... | 51.2        | 83      | 25     | 5.32          | 7.25      | 2.92  | .....    | .....       | .....         | 14     | 12                     |
| 1890..... | 50.4        | 86      | 21     | 2.65          | 4.58      | 1.89  | .....    | .....       | .....         | 7      | 8                      |
| 1891..... | 52.0        | 88      | 20     | 2.19          | 3.80      | 1.39  | .....    | .....       | .....         | 11     | 8                      |
| 1892..... | 49.3        | 87      | 19     | 2.49          | 4.41      | 1.05  | .....    | 9           | 13            | 8      | 8                      |
| 1893..... | 49.2        | 82      | 19     | 5.21          | 7.12      | 2.97  | .....    | 9           | 10            | 12     | 11                     |
| 1894..... | 50.3        | 88      | 10     | 3.09          | 4.86      | 1.71  | .....    | 12          | 9             | 9      | 9                      |
| 1895..... | 49.1        | 89      | 19     | 4.88          | 7.75      | 3.47  | T.       | 11          | 7             | 12     | 10                     |
| 1896..... | 52.4        | 98      | 12     | 1.85          | 2.30      | 0.64  | 3.1      | 13          | 10            | 7      | 7                      |
| 1897..... | 50.4        | 89      | 19     | 3.79          | 6.98      | 2.17  | T.       | 14          | 11            | 5      | 9                      |
| 1898..... | 47.8        | 81      | 13     | 3.74          | 4.94      | 2.17  | 2.9      | 8           | 11            | 11     | 11                     |
| 1899..... | 49.9        | 88      | 18     | 1.73          | 3.25      | 0.48  | T.       | 16          | 10            | 4      | 4                      |
| 1900..... | 50.8        | 82      | 18     | 2.29          | 3.03      | 1.59  | T.       | 14          | 9             | 7      | 6                      |
| 1901..... | 48.3        | 89      | 23     | 6.31          | 10.22     | 3.46  | 0        | 8           | 7             | 15     | 12                     |
| 1902..... | 50.2        | 93      | 20     | 3.62          | 5.99      | 2.45  | 0        | 10          | 11            | 9      | 9                      |
| 1903..... | 50.9        | 92      | 18     | 3.97          | 7.03      | 2.40  | 0        | 13          | 7             | 10     | 9                      |
| 1904..... | 46.7        | 85      | 16     | 3.42          | 4.71      | 2.00  | 0.1      | 9           | 12            | 9      | 10                     |
| 1905..... | 49.9        | 84      | 18     | 2.88          | 4.03      | 1.53  | 0.1      | 12          | 11            | 7      | 10                     |
| 1906..... | 51.2        | 87      | 17     | 3.64          | 6.42      | 1.17  | T.       | 15          | 10            | 5      | 8                      |
| 1907..... | 45.2        | 83      | 19     | 3.78          | 8.67      | 2.06  | 4.8      | 11          | 9             | 10     | 11                     |
| 1908..... | 51.2        | 93      | 13     | 2.72          | 3.86      | 1.42  | T.       | 14          | 9             | 7      | 11                     |
| 1909..... | 50.2        | 88      | 17     | 5.97          | 8.90      | 3.84  | 0.8      | 10          | 11            | 9      | 13                     |
| 1910..... | 53.5        | 88      | 20     | 5.34          | 7.56      | 3.43  | 0        | 9           | 11            | 10     | 12                     |
| 1911..... | 47.4        | 88      | 14     | 4.11          | 5.58      | 2.87  | 2.6      | 10          | 10            | 10     | 11                     |
| 1912..... | 50.4        | 82      | 18     | 3.56          | 6.02      | 1.81  | 0        | 9           | 10            | 11     | 14                     |
| 1913..... | 52.1        | 89      | 19     | 5.78          | 8.53      | 4.14  | T.       | 14          | 7             | 9      | 11                     |
| 1914..... | 48.4        | 89      | 16     | 3.67          | 4.78      | 2.35  | 0        | 13          | 10            | 7      | 11                     |
| 1915..... | 54.4        | 96      | 20     | 2.71          | 4.13      | 1.28  | 11.5     | 14          | 10            | 6      | 9                      |
| 1916..... | 48.2        | 85      | 21     | 3.32          | 6.14      | 0.90  | 4.4      | 10          | 9             | 11     | 13                     |
| 1917..... | 48.8        | 88      | 21     | 2.39          | 3.54      | 1.19  | 4.7      | 15          | 8             | 7      | 9                      |
| 1918..... | 49.8        | 81      | 22     | 1.05          | 5.79      | 2.88  | 2.6      | 11          | 8             | 11     | 12                     |
| 1919..... | 49.3        | 85      | 15     | 3.06          | 4.79      | 2.20  | T.       | 13          | 7             | 10     | 10                     |
| 1920..... | 48.0        | 85      | 13     | 4.50          | 6.06      | 2.90  | T.       | 12          | 9             | 9      | 13                     |
| 1921..... | 55.3        | 87      | 20     | 3.57          | 5.20      | 1.86  | 0.4      | 13          | 6             | 11     | 11                     |
| 1922..... | 51.0        | 89      | 18     | 2.55          | 4.12      | 1.57  | T.       | 15          | 7             | 8      | 10                     |
| 1923..... | 50.0        | 91      | 9      | 3.55          | 6.59      | 2.27  | 0.5      | 16          | 6             | 8      | 9                      |
| 1924..... | 48.0        | 81      | 18     | 6.15          | 9.23      | 4.74  | 6.6      | 15          | 6             | 9      | 11                     |
| 1925..... | 51.4        | 88      | 15     | 2.40          | 3.35      | 1.31  | 0        | 15          | 7             | 8      | 9                      |
| 1926..... | 46.4        | 87      | 14     | 2.05          | 2.97      | 1.39  | T.       | 13          | 10            | 7      | 8                      |
| 1927..... | 47.5        | 93      | 17     | 2.42          | 3.97      | 1.00  | 0.3      | 14          | 7             | 9      | 9                      |



## Climatological Data for April, 1927

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                             |       |            | Prevailing direction of wind | Observers                                                                                                                  |                                                                                                                      |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|-----------------------------|-------|------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 01 in or more | Clear | Pt. cloudy |                              |                                                                                                                            | Cloudy                                                                                                               |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                             |       |            |                              |                                                                                                                            |                                                                                                                      |
| Belvidere.....                              | Warren.....     | 289             | 36                      | 48.6                         | -1.2                      | 92      | 20   | 25     | 10   | 42                       | 3.08  | -0.58                     | 1.35                 | T.                        | 7                           | 19    | 5          | 6                            | .....                                                                                                                      | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                    |
| Charlotteburg...†                           | Passaic.....    | 719             | 35                      | 44.7                         | -2.1                      | 86      | 20   | 20     | 11   | 41                       | 2.28  | -2.04                     | 1.02                 | 1.0                       | 8                           | 5     | 10         | 15                           | w.                                                                                                                         |                                                                                                                      |
| Culvers Lake...†                            | Sussex.....     | 848             | 26                      | 44.7                         | -2.1                      | 86      | 20   | 20     | 11   | 41                       | 2.28  | -2.04                     | 1.02                 | 1.0                       | 8                           | 5     | 10         | 15                           | w.                                                                                                                         |                                                                                                                      |
| Dover.....                                  | Morris.....     | 600             | 43                      | 45.6                         | -1.8                      | 89      | 20   | 25     | 28   | 38                       | 2.63  | -1.13                     | 1.00                 | T.                        | 9                           | 6     | 15         | 9                            | .....                                                                                                                      |                                                                                                                      |
| Layton.....                                 | Sussex.....     | 480             | 26                      | 44.7                         | -2.5                      | 85      | 20   | 22     | 5†   | 46                       | 2.68  | -0.93                     | 1.15                 | 3.0                       | 8                           | 15    | 3          | 12                           | nw.                                                                                                                        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                 |
| Newton.....                                 | Sussex.....     | 769             | 43                      | 45.8                         | -2.2                      | 86      | 20   | 20     | 11   | 39                       | 2.27  | -1.10                     | 0.90                 | 0.5                       | 10                          | 14    | 9          | 7                            | sw.                                                                                                                        |                                                                                                                      |
| Phillipsburg.....                           | Warren.....     | 363             | 44                      | 48.0                         | -1.9                      | 88      | 20   | 26     | 10   | 42                       | 1.95  | -1.31                     | 0.68                 | 0                         | 8                           | 18    | 5          | 7                            | .....                                                                                                                      |                                                                                                                      |
| Sussex.....                                 | Sussex.....     | 442             | 32                      | 45.2 <sup>a</sup>            | -3.4                      | 86      | 20   | 23     | 15   | 44                       | 2.65  | -0.79                     | 0.97                 | 2.0                       | 9                           | 13    | 7          | 10                           | nw.                                                                                                                        |                                                                                                                      |
| Means and extremes...                       |                 |                 |                         | 46.1                         | -2.2                      | 92      | 20   | 20     | 11   | 46                       | 2.52  | -1.13                     | 1.35                 | 1.1                       | 8                           | 14    | 7          | 9                            | nw.                                                                                                                        |                                                                                                                      |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                             |       |            |                              |                                                                                                                            |                                                                                                                      |
| Bergen Point...†                            | Hudson.....     | 37              | 30                      | 48.9 <sup>b</sup>            | -0.6                      | 88      | 20   | 30     | 11   | 33                       | 2.19  | -2.20                     | 1.24                 | T.                        | 9                           | 6     | 19         | 5                            | nw.                                                                                                                        | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                     |
| Boonton.....                                | Morris.....     | 400             | 37                      | 44.9                         | -3.8                      | 88      | 20   | 23     | 5†   | 41                       | 2.43  | -1.56                     | 0.84                 | .....                     | 8                           | 20    | 0          | 10                           | nw.                                                                                                                        |                                                                                                                      |
| Chatham.....                                | Morris.....     | 185             | 23                      | 44.9                         | -3.8                      | 88      | 20   | 23     | 5†   | 41                       | 2.43  | -1.56                     | 0.84                 | .....                     | 8                           | 20    | 0          | 10                           | nw.                                                                                                                        |                                                                                                                      |
| Elizabeth.....                              | Union.....      | 45              | 48                      | 48.2 <sup>a</sup>            | -2.6                      | 91      | 20   | 28     | 10†  | 41                       | 2.20  | -1.48                     | 0.98                 | 0                         | 12                          | 12    | 11         | 7                            | nw.                                                                                                                        |                                                                                                                      |
| Flemington.....                             | Hunterdon.....  | 140             | 41                      | 48.6                         | -1.8                      | 92      | 20   | 27     | 15   | 41                       | 2.82  | -0.70                     | 1.42                 | T.                        | 10                          | 20    | 1          | 9                            | n.                                                                                                                         | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                     |
| Highwood...†                                | Bergen.....     | 90              | 39                      | 46.8                         | -1.7                      | 91      | 20   | 24     | 11   | 41                       | 2.23  | -1.20                     | 0.88                 | 0.5                       | 8                           | 12    | 6          | 12                           | nw.                                                                                                                        |                                                                                                                      |
| Jersey City.....                            | Hudson.....     | 10              | 29                      | 48.8                         | -1.2                      | 92      | 20   | 31     | 8    | 36                       | 2.62  | -1.54                     | 1.39                 | 0.3                       | 8                           | 12    | 9          | 9                            | nw.                                                                                                                        |                                                                                                                      |
| Lambertville.....                           | Hunterdon.....  | 370             | 40                      | 47.4                         | -3.3                      | 87      | 20   | 28     | 5    | 34                       | 3.67  | +0.09                     | 1.99                 | T.                        | 12                          | 14    | 7          | 9                            | nw.                                                                                                                        |                                                                                                                      |
| Little Falls.....                           | Passaic.....    | 180             | 24                      | 47.0                         | -2.9                      | 91      | 20   | 26     | 5    | 41                       | 2.77  | -1.35                     | 1.10                 | 0                         | 9                           | 15    | 5          | 10                           | nw.                                                                                                                        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson. |
| New Brunswick.....                          | Middlesex.....  | 110             | 74                      | 47.9                         | -1.7                      | 90      | 20   | 26     | 11   | 37                       | 2.84  | -0.90                     | 1.59                 | T.                        | 9                           | 16    | 6          | 8                            | n.                                                                                                                         |                                                                                                                      |
| New Milford...†                             | Bergen.....     | 9               | 9                       | 47.9                         | -1.7                      | 90      | 20   | 26     | 11   | 37                       | 2.84  | -0.90                     | 1.59                 | T.                        | 9                           | 16    | 6          | 8                            | n.                                                                                                                         |                                                                                                                      |
| Pateron.....                                | Passaic.....    | 80              | 56                      | 49.9                         | -0.6                      | 92      | 20   | 31     | 4†   | 39                       | 2.22  | -1.34                     | 1.10                 | 0.5                       | 9                           | 23    | 2          | 5                            | nw.                                                                                                                        |                                                                                                                      |
| Plainfield.....                             | Union.....      | 120             | 39                      | 46.8                         | -2.8                      | 92      | 20   | 25     | 5    | 42                       | 2.71  | -1.19                     | 1.00                 | 0.1                       | 8                           | 10    | 11         | 9                            | nw.                                                                                                                        |                                                                                                                      |
| Ridgefield.....                             | Bergen.....     | 80              | 10                      | 46.7                         | .....                     | 90      | 20   | 25     | 15   | 41                       | 2.14  | .....                     | 0.88                 | T.                        | 8                           | 12    | 6          | 12                           | nw.                                                                                                                        | George P. Kirsten.<br>H. B. TenEyck.                                                                                 |
| Somerville.....                             | Somerset.....   | 70              | 44                      | 47.8                         | -1.7                      | 93      | 20   | 23     | 10†  | 44                       | 2.12  | -1.37                     | 0.96                 | 0                         | 8                           | 17    | 3          | 10                           | w.                                                                                                                         |                                                                                                                      |
| South Orange.....                           | Essex.....      | 200             | 57                      | 46.5                         | .....                     | 87      | 20   | 29     | 8†   | 30                       | 2.71  | .....                     | 0.84                 | 0.5                       | 10                          | 11    | 10         | 9                            | w.                                                                                                                         |                                                                                                                      |
| Verona.....                                 | Essex.....      | 490             | 1                       | 46.5                         | .....                     | 87      | 20   | 29     | 8†   | 30                       | 2.71  | .....                     | 0.84                 | 0.5                       | 10                          | 11    | 10         | 9                            | w.                                                                                                                         |                                                                                                                      |
| Woodcliff Lake...†                          | Bergen.....     | 100             | 9                       | 46.5                         | .....                     | 87      | 20   | 29     | 8†   | 30                       | 2.71  | .....                     | 0.84                 | 0.5                       | 10                          | 11    | 10         | 9                            | w.                                                                                                                         | Luther Davis.<br>Hackensack Water Co.                                                                                |
| New York, N. Y.....                         |                 | 365             | 57                      | 47.7                         | -1.7                      | 88      | 20   | 31     | 8    | 31                       | 2.66  | -0.64                     | 1.51                 | 0                         | 8                           | 8     | 10         | 12                           | nw.                                                                                                                        | U. S. Weather Bureau.                                                                                                |
| Means and extremes...                       |                 |                 |                         | 47.6                         | -2.1                      | 93      | 20   | 23     | 5†   | 44                       | 2.50  | -1.26                     | 1.99                 | 0.1                       | 9                           | 14    | 7          | 9                            | nw.                                                                                                                        |                                                                                                                      |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                             |       |            |                              |                                                                                                                            |                                                                                                                      |
| Belleplain.....                             | Cape May.....   | 30              | 33                      | 47.8 <sup>b</sup>            | -2.8                      | 91      | 20   | 22     | 25   | 42                       | 1.52  | -2.13                     | 0.43                 | 0.4                       | 11                          | 15    | 5          | 10                           | .....                                                                                                                      | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.                                                    |
| Bridgeton.....                              | Cumberland..... | 90              | 46                      | 49.2                         | -3.5                      | 90      | 20   | 28     | 8    | 40                       | 1.74  | -1.78                     | 0.35                 | T.                        | 8                           | 11    | 5          | 14                           | sw.                                                                                                                        |                                                                                                                      |
| Burlington.....                             | Burlington..... | 12              | 41                      | 50.1                         | -1.7                      | 89      | 20   | 28     | 12   | 39                       | 3.36  | -0.34                     | 2.13                 | 0                         | 11                          | 15    | 4          | 11                           | sw.                                                                                                                        |                                                                                                                      |
| Clayton.....                                | Gloucester..... | 130             | 30                      | 47.8 <sup>b</sup>            | -2.8                      | 91      | 20   | 22     | 25   | 42                       | 1.52  | -2.13                     | 0.43                 | 0.4                       | 11                          | 15    | 5          | 10                           | .....                                                                                                                      |                                                                                                                      |
| Hammononton.....                            | Atlantic.....   | 103             | 24                      | 47.8 <sup>b</sup>            | -2.8                      | 91      | 20   | 22     | 25   | 42                       | 1.52  | -2.13                     | 0.43                 | 0.4                       | 11                          | 15    | 5          | 10                           | .....                                                                                                                      | Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                                          |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | 47.8 <sup>b</sup>            | -2.8                      | 91      | 20   | 22     | 25   | 42                       | 1.52  | -2.13                     | 0.43                 | 0.4                       | 11                          | 15    | 5          | 10                           | .....                                                                                                                      |                                                                                                                      |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 47.4 <sup>a</sup>            | -3.1                      | 89      | 20   | 24     | 10   | 38                       | 2.50  | -0.94                     | 1.24                 | 0                         | 10                          | 16    | 7          | 7                            | nw.                                                                                                                        |                                                                                                                      |
| Indian Mills...†                            | Burlington..... | 76              | 38                      | 48.6                         | -1.7                      | 90      | 20   | 24     | 10   | 40                       | 2.56  | -0.87                     | 1.05                 | 0                         | 11                          | 13    | 6          | 11                           | nw.                                                                                                                        |                                                                                                                      |
| Lakewood.....                               | Ocean.....      | 54              | 23                      | 47.0                         | -2.4                      | 90      | 20   | 22     | 10   | 43                       | 1.84  | -1.83                     | 0.43                 | 0                         | 10                          | 13    | 6          | 11                           | ne.                                                                                                                        | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                  |
| Moorestown.....                             | Burlington..... | 75              | 64                      | 48.8                         | -1.6                      | 90      | 20   | 28     | 8†   | 38                       | 3.97  | +0.68                     | 2.58                 | 0                         | 11                          | 17    | 2          | 11                           | nw.                                                                                                                        |                                                                                                                      |
| Northfield...†                              | Atlantic.....   | 25              | 20                      | 47.0 <sup>a</sup>            | .....                     | 91      | 20   | 25     | 8    | 43                       | 1.00  | -2.46                     | 0.24                 | 0                         | 11                          | 18    | 9          | 3                            | e.                                                                                                                         |                                                                                                                      |
| Pleasantville...†                           | Atlantic.....   | 26              | 29                      | 47.0 <sup>a</sup>            | .....                     | 91      | 20   | 25     | 8    | 43                       | 1.22  | -2.13                     | 0.30                 | 0                         | 14                          | 18    | 5          | 7                            | ne.                                                                                                                        |                                                                                                                      |
| Riverton.....                               | Burlington..... | 1               | 47.6                    | .....                        | 88                        | 20      | 29   | 5      | 35   | 3.50                     | ..... | 2.05                      | 0                    | 10                        | 16                          | 2     | 12         | n.                           | Japanese Beetle Laboratory<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |                                                                                                                      |
| Runyon...†                                  | Middlesex.....  | 18              | 3                       | 46.6                         | .....                     | 93      | 20   | 17     | 10   | 46                       | 3.26  | .....                     | 1.85                 | 0                         | 9                           | 16    | 10         | 4                            |                                                                                                                            | w.                                                                                                                   |
| Trenton.....                                | Mercer.....     | 190             | 55                      | 48.0                         | -1.8                      | 88      | 20   | 31     | 11   | 34                       | 2.91  | -0.38                     | 1.76                 | T.                        | 10                          | 12    | 4          | 14                           |                                                                                                                            | nw.                                                                                                                  |
| Tuckerton.....                              | Ocean.....      | 23              | 34                      | 48.7 <sup>d</sup>            | -0.6                      | 85      | 20   | 23     | 14   | 38                       | 1.24  | -2.50                     | 0.26                 | 0                         | 11                          | 18    | 9          | 3                            |                                                                                                                            | e.                                                                                                                   |
| Vineland.....                               | Cumherland..... | 109             | 58                      | 50.7                         | -0.3                      | 92      | 20   | 27     | 11   | 39                       | 1.82  | -1.58                     | 0.45                 | T.                        | 12                          | 14    | 9          | 7                            |                                                                                                                            | nw.                                                                                                                  |
| Philadelphia, Pa.....                       |                 | 117             | 56                      | 50.9                         | -1.2                      | 89      | 20   | 34     | 8    | 30                       | 3.66  | +0.75                     | 2.20                 | T.                        | 12                          | 12    | 4          | 14                           |                                                                                                                            | sw.                                                                                                                  |
| Means and extremes...                       |                 |                 |                         | 48.3                         | -2.0                      | 93      | 20   | 17     | 10   | 46                       | 2.36  | -1.32                     | 2.58                 | T.                        | 10                          | 15    | 6          | 9                            | nw.                                                                                                                        |                                                                                                                      |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                             |       |            |                              |                                                                                                                            |                                                                                                                      |
| Asbury Park.....                            | Monmouth.....   | 22              | 38                      | 46.8                         | -1.7                      | 87      | 20   | 29     | 11   | 44                       | 2.30  | -1.39                     | 0.85                 | 0                         | 10                          | 19    | 3          | 8                            | nw.                                                                                                                        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                       |
| Atlantic City.....                          | Atlantic.....   | 16              | 54                      | 47.2                         | -0.6                      | 84      | 20   | 30     | 11   | 34                       | 1.23  | -1.76                     | 0.31                 | T.                        | 12                          | 14    | 6          | 10                           | nw.                                                                                                                        |                                                                                                                      |
| Cape May City.....                          | Cape May.....   | 17              | 43                      | 48.0                         | -0.4                      | 74      | 17   | 32     | 8    | 30                       | 2.62  | -0.37                     | 0.56                 | T.                        | 11                          | ..... | .....      | .....                        | n.                                                                                                                         |                                                                                                                      |
| Sandy Hook.....                             | Monmouth.....   | 22              | 29                      | 47.0                         | 0.0                       | 85      | 20   | 34     | 8    | 33                       | 2.41  | -1.55                     | 1.03                 | 0                         | 7                           | 9     | 10         | 11                           | nw.                                                                                                                        |                                                                                                                      |
| Means and extremes...                       |                 |                 |                         | 47.2                         | -0.7                      | 87      | 20   | 29     | 11   | 44                       | 2.14  | -1.27                     | 1.03                 | T.                        | 10                          | 14    | 6          | 10                           | nw.                                                                                                                        |                                                                                                                      |
| For the State.....                          |                 |                 |                         | 47.5                         | -1.9                      | 93      | 20   | 17     | 10   | 46                       | 2.42  | -1.25                     | 2.58                 | 0.3                       | 9                           | 14    | 7          | 9                            | nw.                                                                                                                        |                                                                                                                      |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

‡ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for April, 1927

| Stations                                   | Drainage Basin  | Day of month |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    | Total |
|--------------------------------------------|-----------------|--------------|-----|-----|----|-----|-----|-----|---|-----|-----|----|----|-----|----|----|----|-----|-----|----|----|------|------|------|-----|-----|-----|-----|-----|-----|-----|----|-------|
|                                            |                 | 1            | 2   | 3   | 4  | 5   | 6   | 7   | 8 | 9   | 10  | 11 | 12 | 13  | 14 | 15 | 16 | 17  | 18  | 19 | 20 | 21   | 22   | 23   | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31 |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    |       |
| Belvidere.....                             | Delaware.....   |              | .32 |     |    | .23 |     | T.  |   |     |     |    |    |     |    |    |    | .21 |     |    |    |      | 1.35 |      | T.  | .28 | .69 |     |     |     |     |    | 3.08  |
| Charlotteburg.....                         | Passaic.....    |              | .32 |     |    | .03 |     | .04 |   |     |     |    |    |     |    |    | *  | .07 |     |    |    |      | 1.02 |      | T.  | .10 | .70 |     |     |     |     |    | 2.28  |
| Culvers Lake.....                          | Delaware.....   |              | .30 |     |    | .15 | .04 |     |   |     |     |    |    |     |    |    |    | .05 |     |    |    |      | 1.10 | .03  | T.  | .15 | .82 | T.  |     |     |     |    | 2.64  |
| Dover.....                                 | Passaic.....    |              | .30 |     |    | .21 | .10 |     |   |     |     |    |    |     |    |    | *  | .16 |     |    |    |      | 1.00 |      |     |     | .18 | .68 |     |     |     |    | 2.63  |
| Layton.....                                | Delaware.....   |              | .35 |     |    | .11 |     | .09 |   |     |     |    |    |     |    |    |    | .02 |     |    |    |      | 1.15 | T.   |     | .32 | .64 |     |     |     |     |    | 2.68  |
| Newton.....                                | Delaware.....   |              | .15 |     |    | .04 | .12 | .04 |   |     |     |    |    |     |    |    |    | .07 |     |    |    |      | .90  | .04  |     | .12 | .71 | .08 |     |     |     |    | 2.27  |
| Phillipsburg.....                          | do.....         | T.           | .18 |     |    | .08 | .04 |     |   |     |     |    |    |     |    |    | T. | .22 |     |    |    | .68  | .14  |      | T.  | .15 | .46 |     |     |     |     |    | 1.95  |
| Sussex.....                                | Hudson.....     |              | .26 |     |    | .14 |     | .11 |   |     |     |    |    |     |    |    |    | .18 |     |    |    |      | .97  | .03  |     | .04 | .60 | .32 |     |     |     |    | 2.65  |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    |       |
| Berge Point**.....                         | Coast.....      | T.           | .12 |     |    | .25 | .04 |     |   |     |     |    |    |     |    |    | T. | .16 |     |    |    | .17  | 1.11 |      | T.  | .02 | .17 | .15 |     |     |     |    | 2.19  |
| Boonton   .....                            | Passaic.....    |              | .20 | T.  |    |     | .19 | .07 |   |     |     |    |    |     |    |    |    | .14 |     |    |    |      | .84  | .20  |     | T.  | .12 | .67 |     |     |     |    | 2.43  |
| Chatham   .....                            | do.....         |              | .13 | .02 |    |     | .21 | .01 |   |     |     |    |    |     |    |    |    | .18 |     |    |    |      | 1.12 | .22  |     | T.  | .05 | .57 |     |     |     |    | 2.51  |
| Elizabeth.....                             | Coast.....      |              | .11 | .01 |    | .07 | .15 | .02 |   |     |     |    |    |     |    |    |    | .13 |     |    |    |      | .98  | .11  | .01 | .01 | .16 | .43 |     |     |     |    | 2.20  |
| Flemington.....                            | Raritan.....    |              | .18 | .08 |    | .09 | .13 | .10 |   | T.  |     |    |    | T.  |    |    |    | .12 |     |    |    |      | 1.42 | .07  | T.  | .03 | .49 | .11 |     |     |     |    | 2.82  |
| Highwood.....                              | Hackensack..... |              | .23 |     |    | .10 | .15 |     |   |     |     |    |    |     |    |    |    | .20 |     | T. |    |      | .78  | .10  |     | .05 | .62 |     |     |     |     |    | 2.23  |
| Jersey City.....                           | Coast.....      | T.           | .12 |     |    | .10 | .14 |     |   |     |     |    |    |     |    |    |    | .15 |     | T. |    | T.   | 1.39 | .02  | T.  | .05 | .65 |     |     | T.  |     |    | 2.62  |
| Lambertville.....                          | Delaware.....   |              | .38 | .02 |    | .22 | .16 | .07 |   |     |     |    |    | .02 |    |    |    | .14 |     |    |    |      | 1.99 | .05  | T.  | T.  | .09 | .49 | .02 |     | .02 |    | 3.67  |
| Little Falls   .....                       | Passaic.....    |              | .28 | .01 |    |     | .22 | .02 |   |     |     |    |    |     |    |    |    | .22 |     |    |    |      | 1.10 | .16  |     | .09 | .67 |     |     |     |     |    | 2.77  |
| New Brunswick.....                         | Raritan.....    |              | .22 | T.  |    | .11 | .12 | .04 |   |     |     |    |    | T.  |    |    |    | .09 |     |    |    |      | 1.59 | .10  |     | T.  | .54 | .03 |     | T.  |     |    | 2.84  |
| New Milford**.....                         | Hackensack..... |              | .18 |     |    | .17 | .02 |     |   |     |     |    |    |     |    |    |    | .15 |     |    |    |      | .51  | .54  |     |     | .04 | .58 |     |     |     |    | 2.19  |
| Paterson.....                              | Passaic.....    | T.           | .05 |     |    | .06 | .13 | .02 |   |     |     |    |    |     |    |    |    | .13 |     |    |    |      | 1.10 | .08  |     | T.  | .03 | .46 | .16 |     |     |    | 2.22  |
| Plainfield.....                            | Raritan.....    |              | .18 |     |    | .20 | .03 |     |   |     |     |    |    |     |    |    | T. | .14 |     |    |    | T.   | 1.51 |      | T.  | .05 | .60 |     |     |     |     |    | 2.71  |
| Ridgefield.....                            | Hackensack..... |              | .13 |     |    |     | .25 | .01 |   |     |     |    |    |     |    |    |    | .20 |     | T. |    |      | .78  | .10  |     |     | .62 |     |     |     |     |    | 2.14  |
| Somerville.....                            | Raritan.....    |              | .13 |     |    | .08 |     | .11 |   |     |     |    |    |     |    |    |    | .16 |     |    |    |      | .96  | .08  |     |     | .43 | .17 |     |     |     |    | 2.12  |
| South Orange.....                          | Rahway.....     |              |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    |       |
| Verona**.....                              | Passaic.....    |              | .02 | .19 |    | .24 | .02 |     |   |     |     |    |    |     |    |    |    | .02 | .20 |    |    |      | .51  | .84  |     |     | .05 | .62 |     |     |     |    | 2.71  |
| Woodcliff Lake**.....                      | Hackensack..... |              | .20 |     |    | .22 |     |     |   |     |     |    |    |     |    |    |    | .05 | .14 |    |    |      | .24  | .44  | .16 |     |     | *   | .63 |     |     |    | 2.08  |
| New York, N. Y***.....                     | Coast.....      | T.           | .11 |     |    | .19 | .04 |     |   |     |     |    |    |     |    |    | T. | .14 |     | T. |    |      | .95  | .56  |     | T.  | .04 | .63 |     | T.  |     |    | 2.66  |
| <i>The Southern Interior.</i>              |                 |              |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    |       |
| Belleplain.....                            | Tuckahoe.....   | .14          | *   | .43 |    | .18 |     |     |   | .19 |     |    |    | .02 |    |    |    |     |     |    |    | T.   | .13  | *    | .22 |     | T.  | .16 |     | .05 |     |    | 1.52  |
| Bridgeton.....                             | Coast.....      | .10          | .23 |     |    | .03 |     |     |   | .31 |     |    |    | T.  |    |    |    |     |     |    |    | .26  | .35  |      |     |     | .25 |     |     | .21 |     |    | 1.74  |
| Burlington.....                            | Delaware.....   | T.           | .16 | .05 |    | .04 | .15 |     |   |     |     |    |    | .11 |    |    |    | .12 |     |    |    |      | .04  | 2.13 | .09 |     |     | .35 | .04 |     | .08 |    | 3.36  |
| Clayton.....                               | Delaware.....   |              |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    |       |
| Hammononton.....                           | Mullica.....    |              |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    |       |
| Hightstown.....                            | Raritan.....    |              | .22 |     |    | *   | .32 |     |   |     |     |    |    | T.  |    |    |    | .18 |     |    |    | *    | 1.81 |      |     |     | .08 | .35 |     | T.  |     |    | 2.96  |
| Imlaystown.....                            | Delaware.....   |              | .17 |     |    | .16 | .13 |     |   |     |     |    |    | .02 |    |    |    | .18 |     |    |    |      | .02  | 1.24 | .04 |     |     | .27 | .15 |     | .12 |    | 2.50  |
| Indian Mills.....                          | Mullica.....    | T.           | .32 |     |    | .08 | .19 | .16 |   |     |     |    |    | .04 |    |    |    | .10 |     |    |    |      | .04  | 1.05 | .10 |     | T.  | .36 |     | T.  | .12 |    | 2.56  |
| Lakewood.....                              | Metedeconk..... |              | .22 | .02 |    | .14 | .22 |     |   |     |     |    |    | T.  |    |    |    | .30 |     |    |    |      | .43  | .15  |     | T.  | .25 | .05 |     | .06 |     |    | 1.84  |
| Moorestown.....                            | Delaware.....   |              | .22 | .10 |    | .03 | .18 | .01 |   |     |     |    |    | .02 |    |    |    | .06 |     |    |    |      | T.   | 2.58 |     |     | T.  | .61 |     |     | .16 |    | 3.97  |
| Northfield.....                            | Coast.....      | .05          | .04 | .24 |    | .05 | .22 |     |   | .05 |     |    |    | .02 |    |    |    | .02 |     |    |    |      | .04  | .11  | .06 |     | T.  | .11 |     | .01 |     |    | 1.00  |
| Pleasantville   .....                      | Coast.....      |              | .14 | .20 |    |     | .30 | .01 |   |     | .05 |    |    | .02 |    |    |    | .02 |     |    |    |      | .02  |      | .25 |     |     | .03 | .13 |     | .05 |    | 1.22  |
| Riverton   .....                           | Delaware.....   |              | .23 | .08 | T. |     | .17 | .01 |   |     |     |    |    | .05 |    |    |    | .13 |     | T. |    | .05  | 2.05 | .16  |     |     | .21 | .36 |     |     |     |    | 3.50  |
| Runyon.....                                | Coast.....      |              | .30 |     |    | .18 | .12 | .06 |   |     |     |    |    |     |    |    |    | .17 |     |    |    |      | 1.65 | .20  |     |     | .40 | .18 |     |     |     |    | 3.26  |
| Trenton***.....                            | Delaware.....   | .03          | .12 |     |    | .21 | .03 |     |   |     |     |    |    | T.  |    |    |    | .11 |     | T. |    | 1.56 | .24  |      | T.  | .15 | .33 |     | .13 |     |     |    | 2.91  |
| Tuckerton.....                             | Coast.....      |              | .13 | .13 |    | .05 | .25 |     |   |     |     |    |    | .02 |    |    |    | .05 |     |    |    |      | .02  | .26  |     |     | .20 |     | .05 | .08 |     |    | 1.24  |
| Vineland.....                              | Maurice.....    |              | .33 | .06 |    | .05 | .12 | T.  |   | .09 |     |    |    | .06 |    |    |    | .06 |     |    |    |      | .03  | .36  |     |     | .08 | .10 | .45 | .09 |     |    | 1.82  |
| Phila., Pa***.....                         | Delaware.....   | .05          | .26 |     |    | .10 | .05 | .01 |   |     |     |    |    | .05 |    |    |    | .06 |     | T. |    | 2.11 | .18  |      | T.  |     | .27 | .28 |     | .24 |     |    | 3.66  |
| <i>The Sea Coast.</i>                      |                 |              |     |     |    |     |     |     |   |     |     |    |    |     |    |    |    |     |     |    |    |      |      |      |     |     |     |     |     |     |     |    |       |
| Asbury Park.....                           | Coast.....      | T.           | .26 |     |    | .30 | .20 |     |   |     |     |    |    | .05 |    |    |    | .20 |     |    |    |      | .85  |      |     |     | .05 | .35 |     |     | .05 |    | 2.30  |
| Atlantic City***.....                      | do.....         | .03          | .19 | .21 |    | .18 | .13 | T.  |   | .03 |     |    |    | .03 |    |    |    | T.  |     |    |    |      | .02  | .26  |     |     | .03 | .09 |     | .03 | T.  |    | 1.23  |
| Cape May City.....                         | do.....         | .43          | T.  | .38 |    | .04 | .32 |     |   | .37 |     |    |    | T.  |    |    |    | T.  |     |    |    |      | .13  | .30  | .03 |     |     | .56 |     | .02 | .04 |    | 2.62  |
| Sandy Hook***.....                         | do.....         |              | .28 |     |    | .29 | .10 | T.  |   |     |     |    |    | T.  |    |    |    | T.  |     |    |    |      | .63  | .41  |     |     | T.  | .66 |     |     |     |    | 2.41  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 30.08        | 30.53   | 15   | 29.41  | 27   | 18.7            | 51             | ne.       | 2    | 64                                     | 59                                        | 68                                      | 61            |
| New York, N. Y.....   | 30.08        | 30.55   | 15   | 29.48  | 27   | 18.0            | 62             | nw.       | 7    | 63                                     | 49                                        | 59                                      | 62            |
| Philadelphia, Pa..... | 30.10        | 30.67   | 15   | 29.43  | 27   | 10.0            | 40             | ne.       | 27   | 77                                     | 71                                        | 71                                      | 56            |
| Ridgefield.....       |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Riverton.....         |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Sandy Hook.....       |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Trenton.....          | 30.06        | 30.54   | 15   | 29.44  | 27   | 15.5            | 48             | nw.       | 7    | 62                                     | 48                                        | 56                                      |               |
| Verona.....           | 30.08        | 30.53   | 15   | 29.44  | 27   | 11.3            | 42             | n.        | 27   | 64                                     | 52                                        | 62                                      | 62            |
|                       | 30.09        | 30.54   | 15   | 29.48  | 27   | 7.3             | 32             | w.        | 7    | 68                                     | 54                                        | 60                                      | 68            |
|                       |              |         |      |        |      |                 |                |           |      | 67*                                    | 43                                        | 57                                      |               |

\* 7 a. m



## Daily Temperatures for April, 1922

| Stations                             | 1            | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10   | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |
|--------------------------------------|--------------|----|----|----|----|----|----|----|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|------|
| The Highlands and Kittatinny Valley. |              |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Belvidere.....                       | Maximum..... | 57 | 42 | 46 | 52 | 66 | 61 | 60 | 54 | 54   | 65 | 69 | 62 | 64 | 67 | 76 | 67 | 74 | 71 | 92 | 82 | 65 | 54 | 52 | 56 | 56 | 55 | 61 | 62 | 59 | 62   | 62   |
|                                      | Minimum..... | 33 | 32 | 33 | 30 | 29 | 33 | 38 | 29 | 31   | 25 | 29 | 27 | 43 | 32 | 32 | 39 | 52 | 47 | 42 | 51 | 53 | 38 | 34 | 28 | 29 | 29 | 37 | 35 | 35 | 40   | 35.2 |
| Charlotteburg.....                   | Maximum..... | 43 | 40 | 42 | 45 | 44 | 61 | 61 | 53 | 52   | 49 | 57 | 68 | 66 | 57 | 65 | 72 | 69 | 69 | 73 | 86 | 80 | 74 | 51 | 49 | 50 | 54 | 54 | 56 | 57 | 60   | 58.0 |
|                                      | Minimum..... | 27 | 29 | 28 | 22 | 23 | 35 | 33 | 25 | 22   | 21 | 20 | 29 | 41 | 25 | 26 | 32 | 40 | 28 | 29 | 41 | 53 | 42 | 33 | 21 | 24 | 22 | 40 | 34 | 27 | 38   | 30.8 |
| Dover.....                           | Maximum..... | 48 | 39 | 44 | 45 | 35 | 63 | 53 | 57 | 48   | 52 | 61 | 68 | 56 | 60 | 67 | 74 | 63 | 70 | 72 | 89 | 75 | 63 | 52 | 49 | 52 | 56 | 55 | 57 | 59 | 59   | 58.0 |
|                                      | Minimum..... | 32 | 31 | 34 | 27 | 26 | 33 | 36 | 27 | 30   | 30 | 29 | 32 | 40 | 28 | 29 | 41 | 43 | 36 | 41 | 53 | 37 | 34 | 29 | 28 | 26 | 36 | 25 | 34 | 39 | 33.3 |      |
| Layton.....                          | Maximum..... | 45 | 38 | 45 | 50 | 38 | 63 | 54 | 54 | 50   | 63 | 68 | 58 | 58 | 68 | 70 | 60 | 70 | 70 | 85 | 80 | 62 | 50 | 47 | 53 | 55 | 53 | 55 | 60 | 62 | 57.9 |      |
|                                      | Minimum..... | 26 | 30 | 33 | 25 | 22 | 32 | 35 | 25 | 28   | 22 | 26 | 25 | 37 | 32 | 22 | 28 | 45 | 38 | 42 | 52 | 47 | 38 | 34 | 25 | 23 | 22 | 36 | 34 | 31 | 28   | 31.5 |
| Newton.....                          | Maximum..... | 44 | 39 | 43 | 46 | 36 | 63 | 58 | 54 | 50   | 49 | 59 | 67 | 61 | 58 | 64 | 73 | 67 | 65 | 72 | 86 | 78 | 61 | 49 | 47 | 52 | 56 | 53 | 55 | 58 | 60   | 57.4 |
|                                      | Minimum..... | 31 | 29 | 33 | 28 | 29 | 32 | 34 | 26 | 28   | 29 | 20 | 32 | 41 | 30 | 30 | 41 | 49 | 40 | 45 | 55 | 48 | 36 | 36 | 29 | 29 | 34 | 35 | 25 | 36 | 37   | 34.2 |
| Phillipsburg.....                    | Maximum..... | 50 | 46 | 45 | 48 | 39 | 65 | 49 | 57 | 51   | 53 | 68 | 71 | 62 | 64 | 68 | 78 | 64 | 72 | 88 | 80 | 57 | 52 | 50 | 61 | 60 | 56 | 63 | 65 | 58 | 60.4 |      |
|                                      | Minimum..... | 31 | 34 | 35 | 30 | 30 | 36 | 31 | 31 | 26   | 28 | 29 | 40 | 27 | 30 | 36 | 45 | 37 | 44 | 52 | 55 | 39 | 37 | 31 | 28 | 32 | 38 | 36 | 35 | 43 | 35.7 |      |
| Sussex.....                          | Maximum..... | 57 | 40 | 45 | 50 | 42 | 64 | 61 | 54 | 52   | 49 | 60 | 68 | 53 | 58 | 67 | 71 | 65 | 74 | 86 | 80 | 63 | 49 | 48 | 53 | 55 | 54 | 56 | 59 | 63 | 58.5 |      |
|                                      | Minimum..... | 26 | 30 | 34 | 24 | 24 | 32 | 36 | 26 | 29   | 25 | 25 | 28 | 38 | 24 | 23 | 36 | 51 | 34 | 51 | 47 | 40 | 36 | 28 | 24 | 24 | 38 | 34 | 32 | 29 | 32.0 |      |
| The Red Sandstone Plain.             |              |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Bergen Point.....                    | Maximum..... | 49 | 41 | 44 | 45 | 41 | 66 | 55 | 56 | 55   | 53 | 60 | 67 | 58 | 61 | 60 | 74 | 65 | 61 | 70 | 88 | 60 | 55 | 50 | 57 | 60 | 58 | 62 | 54 | 54 | 58.0 |      |
|                                      | Minimum..... | 39 | 36 | 39 | 35 | 35 | 36 | 40 | 22 | 35   | 33 | 30 | 35 | 48 | 60 | 65 | 71 | 60 | 67 | 70 | 88 | 76 | 54 | 51 | 50 | 53 | 55 | 57 | 56 | 60 | 56   | 57.2 |
| Boonton§§.....                       | Maximum..... | 45 | 39 | 46 | 48 | 43 | 63 | 46 | 56 | 50   | 51 | 61 | 65 | 54 | 60 | 65 | 71 | 60 | 67 | 70 | 88 | 76 | 54 | 51 | 50 | 53 | 55 | 57 | 56 | 60 | 56   | 57.2 |
|                                      | Minimum..... | 26 | 29 | 30 | 24 | 23 | 31 | 37 | 28 | 28   | 28 | 30 | 26 | 44 | 24 | 24 | 32 | 46 | 34 | 33 | 48 | 50 | 49 | 36 | 30 | 23 | 25 | 33 | 36 | 36 | 36   | 32.6 |
| Elizabeth.....                       | Maximum..... | 59 | 41 | 46 | 46 | 66 | 57 | 57 | 53 | 62   | 68 | 63 | 64 | 66 | 63 | 64 | 66 | 66 | 71 | 91 | 91 | 59 | 52 | 51 | 56 | 58 | 61 | 63 | 63 | 59 | 59   | 59.7 |
|                                      | Minimum..... | 32 | 38 | 32 | 34 | 33 | 36 | 41 | 31 | 34   | 28 | 28 | 45 | 48 | 32 | 29 | 35 | 38 | 38 | 50 | 56 | 43 | 41 | 30 | 28 | 31 | 37 | 38 | 35 | 41 | 41   | 36.6 |
| Flemington.....                      | Maximum..... | 51 | 43 | 45 | 47 | 44 | 68 | 57 | 61 | 54   | 55 | 64 | 63 | 62 | 68 | 75 | 68 | 72 | 92 | 81 | 64 | 55 | 53 | 58 | 57 | 58 | 61 | 63 | 64 | 59 | 61   | 61.4 |
|                                      | Minimum..... | 33 | 33 | 35 | 28 | 28 | 35 | 39 | 30 | 34   | 28 | 29 | 30 | 44 | 28 | 27 | 41 | 50 | 39 | 39 | 54 | 55 | 42 | 35 | 30 | 30 | 35 | 35 | 34 | 42 | 42   | 35.7 |
| Highwood.....                        | Maximum..... | 49 | 41 | 47 | 46 | 39 | 64 | 55 | 56 | 50   | 53 | 61 | 69 | 57 | 61 | 64 | 73 | 62 | 65 | 69 | 91 | 79 | 57 | 53 | 52 | 57 | 60 | 59 | 62 | 61 | 61   | 59.0 |
|                                      | Minimum..... | 28 | 33 | 36 | 28 | 28 | 34 | 38 | 31 | 31   | 30 | 24 | 28 | 44 | 24 | 28 | 44 | 45 | 44 | 44 | 56 | 52 | 40 | 39 | 34 | 37 | 42 | 38 | 40 | 45 | 46   | 30.5 |
| Jersey City.....                     | Maximum..... | 45 | 41 | 46 | 47 | 41 | 64 | 54 | 57 | 49   | 52 | 62 | 67 | 57 | 62 | 59 | 70 | 66 | 63 | 70 | 92 | 75 | 60 | 51 | 50 | 52 | 56 | 60 | 60 | 61 | 57   | 58.2 |
|                                      | Minimum..... | 38 | 35 | 36 | 35 | 34 | 35 | 35 | 31 | 36   | 34 | 33 | 42 | 41 | 36 | 39 | 44 | 45 | 44 | 44 | 56 | 52 | 40 | 39 | 34 | 37 | 42 | 38 | 40 | 45 | 46   | 30.5 |
| Lambertville.....                    | Maximum..... | 51 | 39 | 43 | 45 | 40 | 63 | 55 | 56 | 48   | 52 | 60 | 66 | 55 | 60 | 64 | 71 | 63 | 71 | 73 | 87 | 81 | 63 | 50 | 48 | 54 | 58 | 59 | 57 | 60 | 54   | 58.2 |
|                                      | Minimum..... | 34 | 33 | 33 | 30 | 28 | 35 | 39 | 30 | 33   | 29 | 36 | 43 | 30 | 31 | 41 | 46 | 39 | 39 | 56 | 54 | 39 | 34 | 30 | 30 | 34 | 40 | 36 | 44 | 43 | 36.6 |      |
| Little Falls§§.....                  | Maximum..... | 45 | 47 | 43 | 47 | 49 | 65 | 49 | 58 | 56   | 52 | 63 | 66 | 56 | 62 | 67 | 67 | 69 | 75 | 73 | 91 | 76 | 53 | 49 | 51 | 50 | 56 | 56 | 58 | 62 | 64   | 58.5 |
|                                      | Minimum..... | 31 | 32 | 33 | 28 | 26 | 34 | 39 | 30 | 32   | 30 | 29 | 31 | 47 | 29 | 29 | 38 | 41 | 36 | 38 | 50 | 53 | 49 | 38 | 33 | 28 | 29 | 38 | 36 | 36 | 38   | 35.4 |
| New Brunswick.....                   | Maximum..... | 50 | 40 | 43 | 44 | 40 | 64 | 59 | 56 | 53   | 51 | 60 | 63 | 60 | 64 | 70 | 68 | 65 | 71 | 90 | 82 | 54 | 51 | 49 | 55 | 58 | 59 | 57 | 60 | 58 | 59   | 59.0 |
|                                      | Minimum..... | 35 | 33 | 36 | 33 | 31 | 35 | 40 | 35 | 29   | 26 | 34 | 46 | 32 | 29 | 38 | 50 | 39 | 38 | 53 | 54 | 42 | 35 | 30 | 30 | 32 | 39 | 37 | 40 | 43 | 36.8 |      |
| Paterson.....                        | Maximum..... | 54 | 43 | 47 | 48 | 43 | 67 | 59 | 58 | 52   | 54 | 66 | 70 | 65 | 63 | 69 | 75 | 66 | 66 | 75 | 92 | 79 | 61 | 55 | 52 | 57 | 58 | 59 | 62 | 60 | 61   | 61.2 |
|                                      | Minimum..... | 34 | 32 | 38 | 31 | 31 | 36 | 42 | 32 | 33   | 32 | 40 | 49 | 34 | 33 | 41 | 53 | 40 | 41 | 53 | 56 | 44 | 40 | 32 | 32 | 33 | 42 | 39 | 41 | 42 | 38.6 |      |
| Plainfield.....                      | Maximum..... | 45 | 41 | 45 | 46 | 39 | 67 | 54 | 57 | 49   | 55 | 64 | 68 | 55 | 63 | 60 | 75 | 61 | 67 | 71 | 92 | 74 | 60 | 53 | 51 | 55 | 58 | 61 | 60 | 63 | 60   | 59.0 |
|                                      | Minimum..... | 36 | 33 | 35 | 26 | 25 | 33 | 38 | 30 | 32   | 29 | 27 | 30 | 44 | 27 | 28 | 38 | 44 | 35 | 39 | 50 | 51 | 40 | 36 | 32 | 27 | 28 | 37 | 37 | 35 | 38   | 34.7 |
| Ridgefield.....                      | Maximum..... | 44 | 38 | 45 | 47 | 39 | 65 | 48 | 59 | 55   | 48 | 59 | 69 | 57 | 61 | 64 | 73 | 62 | 65 | 69 | 90 | 79 | 57 | 53 | 52 | 57 | 57 | 60 | 59 | 62 | 61   | 58.5 |
|                                      | Minimum..... | 32 | 32 | 36 | 32 | 32 | 34 | 40 | 30 | 32   | 28 | 26 | 28 | 44 | 27 | 25 | 35 | 47 | 34 | 40 | 51 | 49 | 42 | 38 | 27 | 29 | 32 | 39 | 37 | 37 | 37   | 34.9 |
| Somerville.....                      | Maximum..... | 58 | 41 | 45 | 48 | 42 | 67 | 62 | 59 | 54   | 54 | 63 | 70 | 65 | 62 | 78 | 68 | 71 | 74 | 85 | 85 | 58 | 52 | 58 | 60 | 61 | 59 | 62 | 60 | 61 | 61.6 |      |
|                                      | Minimum..... | 29 | 34 | 35 | 28 | 26 | 35 | 40 | 31 | 33   | 23 | 27 | 31 | 46 | 23 | 25 | 34 | 47 | 31 | 37 | 50 | 55 | 43 | 36 | 29 | 24 | 30 | 30 | 37 | 31 | 40   | 34.0 |
| South Orange.....                    | Maximum..... | 46 | 39 | 44 | 42 | 37 | 62 | 53 | 53 | 45   | 48 | 59 | 66 | 53 | 58 | 62 | 71 | 64 | 62 | 70 | 87 | 72 | 53 | 50 | 48 | 53 | 55 | 57 | 55 | 57 | 57   | 56.0 |
|                                      | Minimum..... | 33 | 31 | 35 | 30 | 31 | 34 | 39 | 29 | 31   | 32 | 29 | 37 | 46 | 30 | 32 | 43 | 46 | 38 | 43 | 57 | 52 | 38 | 36 | 31 | 31 | 36 | 39 | 37 | 42 | 41   | 37.0 |
| New York, N. Y.....                  | Maximum..... | 45 | 41 | 45 | 46 | 40 | 62 | 51 | 54 | 46   | 48 | 59 | 63 | 57 | 58 | 66 | 67 | 64 | 58 | 66 | 88 | 69 | 60 | 48 | 52 | 52 | 57 | 56 | 58 | 54 | 54   | 55.7 |
|                                      | Minimum..... | 39 | 35 | 36 | 35 | 34 | 35 | 35 | 31 | 36   | 35 | 33 | 43 | 41 | 36 | 40 | 44 | 46 | 44 | 44 | 57 | 52 | 39 | 39 | 34 | 37 | 42 | 38 | 40 | 45 | 46   | 39.7 |
| The Southern Interior.               |              |    |    |    |    |    |    |    |    |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |
| Belleplaln.....                      | Maximum..... | 54 | 43 | 47 | 44 | 67 | 58 | 57 | 49 | 56</ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |      |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

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# CLIMATOLOGICAL DATA.

NEW JERSEY SECTION.  
G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXII.

MAY, 1927.

No. 5

## GENERAL SUMMARY.

The weather during May did not vary very greatly from normal, but two factors gradually developed which made it seem to be markedly abnormal. The temperatures were decidedly subnormal, but to no great degree, during the last three weeks, with few exceptions, and the frequency of rain was slightly oftener than usual. Mean temperature and total precipitation were both somewhat subnormal, but not enough to cause any unusually marked result. Had the subnormal warmth been accompanied by excessive rain, very serious crop situations would have developed; and if this lack of rain had been attended by very warm weather, drought conditions would have readily developed. It was a little cooler and wetter than May of last year in this region, but not as cool as in the corresponding month of 1925, nor as wet as that of 1924. The occurrences of frost were much the same as in 1926 and also other Mays of earlier years. Although both April and May have been slightly subnormal in warmth, they have been more than offset by an excess of heat in earlier months of the year, so that the year to date is not showing any marked variation in temperature. The deficiency in precipitation is becoming more marked, and is slightly overrunning the deficiency of last year, accumulated for the same relative period. The number of clear days, averaging the entire State, was the lowest since 1908. At many northern stations there was a slight excess of precipitation, but in the southern half all localities were deficient. In the southwestern interior of the State the temperature deficiency was hardly noticeable.

A wind squall about 7:30 p. m. on the 10th in Union County and adjoining regions destroyed some frame buildings of considerable size. It was probably a line squall as there were no decided evidences of tornadic development.

No storm warnings were displayed during the month.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 39 stations, was 58.1°, which was 2.3° below normal. The highest temperature was 88° at Lakewood on the 10th, and at Bridgeton on the 24th, and the lowest 30° at Layton on the 8th, and at Charlotteburg on the 29th. The greatest daily range of temperature was 44° at Layton on the 29th. The highest monthly mean temperature was 62.5° at Vineland, and the lowest, 54.9° at Charlotteburg.

The temperature departure from the normal for the year 1927, to date, by sections, is: The Highlands, +1.3°; Red Sandstone Plain, +0.7°; Southern Interior, +1.1°; Sea Coast, +1.2°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 3.65 inches, which was 0.21 inch below normal.

The greatest monthly precipitation was 8.16 inches, at Chat-ham, and the least, 1.93 inches at Phillipsburg. The greatest amount of precipitation in any 24 consecutive hours was 1.94 inches at Somerville on the 24-25th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 13, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -4.17 inches; Red Sandstone Plain, -5.62 inches; Southern Interior, -6.62 inches; Sea Coast, -6.30 inches.

## WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 11 miles per hour, which was normal. The highest velocity, sustained for 5 consecutive minutes, was 50 miles per hour from the west at Sandy Hook on the 26th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 9, which was 4 less than normal; partly cloudy, 10, or 1 more than normal; cloudy, 12, or 3 more than normal. The per cent of possible sunshine was 53, which was 7 per cent below normal.

## MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.92 inches, which was 0.07 inch below normal. The highest reading was 30.49 inches at Ridgefield on the 21st, and the lowest, 29.49 inches at Verona on the 26th.

The mean stage of the Delaware River at Phillipsburg was 5.0 feet, and the highest 10.0 feet on the 26th. At Trenton the mean daily stage was 2.8 feet, which was 0.2 foot above normal: the highest stage was 5.9 feet on the 26th.

Dense fog occurred on the 10th and 25th. Thunderstorms were reported on the 6th, 9th to 12th, inclusive, 14th, 15th, 16th, 19th, 23d to 26th, inclusive and 31st. Solar halos were observed on the 5th and 8th.

Light to heavy frost occurred in many susceptible localities of interior portions of the State on the 28th and 29th.

Light hail, without damage occurred in a few scattered localities on the 15th. Light hail occurred in many localities of the interior on the 26th without damage, except injury to a few tender plants in Burlington county.

## COMPARATIVE DATA FOR MAY

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 57.3        | 90      | 29     | 2.74          | 5.20     | 1.18  | .....       | .....         | .....  | .....                  |
| 1886..... | 58.8        | 87      | 36     | 6.07          | 8.46     | 4.15  | .....       | .....         | .....  | .....                  |
| 1887..... | 63.3        | 94      | 35     | 1.37          | 3.82     | 0.08  | .....       | .....         | .....  | .....                  |
| 1888..... | 58.6        | 90      | 26     | 4.92          | 6.48     | 3.00  | .....       | .....         | 9      | 6                      |
| 1889..... | 62.3        | 94      | 32     | 4.09          | 6.60     | 2.43  | .....       | .....         | 18     | 16                     |
| 1890..... | 60.7        | 87      | 33     | 4.24          | 7.17     | 2.60  | .....       | .....         | 11     | 12                     |
| 1891..... | 59.5        | 93      | 28     | 2.97          | 5.39     | 1.78  | .....       | .....         | 11     | 12                     |
| 1892..... | 60.1        | 90      | 30     | 5.04          | 6.52     | 3.26  | 9           | 11            | 11     | 9                      |
| 1893..... | 59.4        | 95      | 29     | 4.07          | 6.38     | 2.55  | 8           | 13            | 10     | 13                     |
| 1894..... | 61.4        | 93      | 30     | 7.72          | 15.61    | 3.57  | 13          | 8             | 10     | 10                     |
| 1895..... | 60.9        | 102     | 28     | 2.85          | 3.95     | 1.66  | 11          | 9             | 11     | 13                     |
| 1896..... | 65.3        | 98      | 29     | 3.21          | 4.54     | 1.62  | 12          | 12            | 7      | 8                      |
| 1897..... | 60.6        | 87      | 29     | 5.68          | 9.11     | 1.71  | 10          | 12            | 9      | 10                     |
| 1898..... | 58.5        | 93      | 29     | 7.00          | 9.26     | 3.92  | 11          | 12            | 8      | 12                     |
| 1899..... | 61.1        | 94      | 29     | 1.92          | 3.15     | 1.15  | 8           | 15            | 18     | 18                     |
| 1900..... | 60.9        | 98      | 26     | 4.71          | 7.33     | 2.53  | 12          | 12            | 7      | 9                      |
| 1901..... | 58.6        | 90      | 29     | 5.60          | 8.13     | 3.10  | 13          | 7             | 11     | 10                     |
| 1902..... | 60.3        | 95      | 29     | 2.04          | 4.63     | 1.11  | 9           | 9             | 13     | 16                     |
| 1903..... | 62.7        | 98      | 21     | 0.59          | 1.32     | 0.08  | 15          | 11            | 5      | 7                      |
| 1904..... | 62.8        | 97      | 31     | 2.60          | 6.69     | 1.01  | 16          | 10            | 5      | 4                      |
| 1905..... | 61.4        | 89      | 22     | 1.71          | 3.94     | 0.42  | 17          | 9             | 5      | 8                      |
| 1906..... | 61.0        | 94      | 24     | 4.21          | 6.25     | 2.37  | 12          | 11            | 8      | 8                      |
| 1907..... | 55.4        | 91      | 22     | 5.05          | 8.09     | 2.51  | 16          | 8             | 7      | 10                     |
| 1908..... | 61.6        | 95      | 29     | 7.10          | 9.99     | 4.39  | 12          | 9             | 10     | 12                     |
| 1909..... | 60.0        | 91      | 27     | 2.30          | 4.84     | 0.79  | 9           | 10            | 12     | 13                     |
| 1910..... | 60.0        | 94      | 27     | 2.54          | 4.25     | 1.48  | 10          | 11            | 10     | 9                      |
| 1911..... | 64.5        | 99      | 22     | 1.37          | 3.84     | 0.31  | 10          | 10            | 11     | 12                     |
| 1912..... | 62.0        | 92      | 31     | 4.09          | 6.47     | 2.79  | 14          | 11            | 6      | 7                      |
| 1913..... | 60.3        | 94      | 25     | 3.45          | 4.86     | 2.53  | 11          | 9             | 7      | 9                      |
| 1914..... | 63.1        | 98      | 30     | 2.93          | 5.09     | 0.95  | 14          | 9             | 7      | 10                     |
| 1915..... | 58.1        | 88      | 30     | 3.82          | 6.15     | 2.00  | 13          | 7             | 11     | 13                     |
| 1916..... | 61.1        | 90      | 33     | 3.48          | 5.27     | 2.14  | 12          | 11            | 8      | 12                     |
| 1917..... | 54.0        | 90      | 25     | 3.83          | 6.83     | 2.08  | 10          | 10            | 11     | 11                     |
| 1918..... | 64.6        | 93      | 31     | 4.94          | 7.59     | 2.74  | 14          | 10            | 7      | 12                     |
| 1919..... | 60.9        | 95      | 31     | 4.98          | 7.68     | 3.06  | 14          | 6             | 11     | 12                     |
| 1920..... | 57.4        | 89      | 26     | 3.00          | 5.23     | 1.61  | 15          | 8             | 8      | 10                     |
| 1921..... | 60.2        | 96      | 32     | 4.17          | 6.44     | 2.60  | 14          | 7             | 10     | 10                     |
| 1922..... | 63.0        | 90      | 23     | 3.84          | 7.55     | 1.16  | 18          | 6             | 7      | 8                      |
| 1923..... | 59.1        | 90      | 25     | 1.66          | 3.62     | 0.67  | 20          | 6             | 5      | 6                      |
| 1924..... | 56.8        | 87      | 25     | 5.69          | 7.94     | 3.36  | 12          | 7             | 12     | 17                     |
| 1925..... | 57.7        | 99      | 23     | 2.86          | 4.94     | 0.49  | 13          | 11            | 7      | 8                      |
| 1926..... | 59.1        | 90      | 26     | 2.58          | 4.52     | 1.08  | 18          | 9             | 4      | 9                      |
| 1927..... | 58.1        | 88      | 30     | 3.65          | 8.16     | 1.93  | 9           | 10            | 12     | 13                     |



## Climatological Data for May, 1927

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers                  |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|----------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |                            |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                            |
| Belvidere.....                       | Warren.....     | 289             | 36                      | 58.2 <sup>b</sup>            | -2.5                      | 81      | 10    | 35     | 1     | 36                       | 3.98  | +0.15                     | 0.95                 | 0                         | 14                           | 15    | 4          | 12                           | Miss C. S. Hixson.         |
| Charlotteburg <sup>††</sup> .....    | Passaic.....    | 719             | 35                      | 54.9                         | -2.6                      | 76      | 11    | 30     | 29    | 43                       | 4.14  | -0.06                     | 0.97                 | 0                         | 17                           | 0     | 6          | 25                           | Newark Water Dept.         |
| Culvers Lake <sup>††</sup> .....     | Sussex.....     | 848             | 26                      | .....                        | .....                     | .....   | ..... | 37     | 17    | .....                    | 3.48  | -0.15                     | 0.92                 | 0                         | 15                           | 15    | 2          | 14                           | Brice E. Riker.            |
| Dover.....                           | Morris.....     | 600             | 43                      | 56.0 <sup>a</sup>            | -2.6                      | 77      | 11    | 36     | 27    | 38                       | 4.62  | +0.68                     | 1.13                 | 0                         | 16                           | 4     | 15         | 12                           | William C. Harris.         |
| Layton.....                          | Sussex.....     | 480             | 26                      | 55.5                         | -2.5                      | 80      | 10    | 30     | 8     | 44                       | 3.98  | +0.73                     | 1.11                 | 0                         | 13                           | 9     | 4          | 18                           | A. M. Depue.               |
| Newton.....                          | Sussex.....     | 769             | 43                      | 56.4                         | -3.1                      | 80      | 10    | 38     | 17    | 32                       | 3.72  | -0.21                     | 0.69                 | 0                         | 14                           | 9     | 11         | 11                           | Irving J. Kern.            |
| Phillipsburg.....                    | Warren.....     | 363             | 44                      | 53.7                         | -2.6                      | 87      | 10    | 37     | 1     | 36                       | 1.93  | -1.93                     | 0.77                 | 0                         | 9                            | 15    | 5          | 11                           | Town Engineer.             |
| Sussex.....                          | Sussex.....     | 442             | 32                      | 56.1 <sup>a</sup>            | -3.8                      | 79      | 30    | 34     | 17    | 42                       | 4.84  | +1.12                     | 1.03                 | 0                         | 12                           | 10    | 3          | 18                           | A. J. W. Mowatt            |
| Means and extremes.....              |                 |                 |                         | 56.5                         | -2.8                      | 87      | 10    | 30     | 87    | 44                       | 3.84  | +0.04                     | 1.13                 | 0                         | 14                           | 10    | 6          | 15                           | w.                         |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                            |
| Bergen Point <sup>††</sup> .....     | Hudson.....     | 37              | 30                      | 58.6                         | -1.7                      | 74      | 117   | 42     | 1     | 28                       | 3.80  | -0.16                     | 1.26                 | 0                         | 12                           | 6     | 19         | 6                            | William H. Mitchell        |
| Boonton.....                         | Morris.....     | 400             | 337                     | 55.2                         | -4.0                      | 76      | 117   | 33     | 28    | 39                       | 4.58  | +0.52                     | 1.09                 | 0                         | 14                           | 11    | 1          | 19                           | John Kline.                |
| Chatham.....                         | Morris.....     | 185             | 23                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 8.16  | +4.66                     | 1.71                 | 0                         | 18                           | 14    | 10         | 7                            | Paul Molitor, Sr.          |
| Elizabeth.....                       | Union.....      | 45              | 48                      | 59.3 <sup>a</sup>            | -2.7                      | 80      | 117   | 38     | 1     | .....                    | 3.75  | -0.07                     | 1.00                 | 0                         | 13                           | 12    | 10         | 9                            | Union County Park Com      |
| Flemington.....                      | Hunterdon.....  | 140             | 341                     | 58.7                         | -2.6                      | 82      | 10    | 39     | 2     | 34                       | 3.46  | -0.56                     | 1.53                 | 0                         | 16                           | 10    | 12         | 9                            | Hiram E. Deats.            |
| Highwood <sup>††</sup> .....         | Bergen.....     | 90              | 39                      | 56.6                         | -2.7                      | 79      | 11    | 36     | 1     | 31                       | 5.19  | +1.36                     | 1.83                 | 0                         | 12                           | 9     | 6          | 16                           | Charles J. Bates.          |
| Jersey City.....                     | Hudson.....     | 10              | 29                      | 59.0                         | -2.6                      | 78      | 117   | 44     | 28    | 28                       | 3.65  | +0.07                     | 0.76                 | 0                         | 13                           | 6     | 12         | 13                           | S. K. Pearson, Jr.         |
| Lambertville.....                    | Hunterdon.....  | 370             | 40                      | 57.7                         | -3.9                      | 81      | 10    | 39     | 28    | 31                       | 4.04  | +0.02                     | 1.73                 | 0                         | 15                           | 9     | 9          | 13                           | Wm. J. Lauderdale.         |
| Little Falls.....                    | Passaic.....    | 180             | 324                     | 57.0                         | -2.7                      | 79      | 11    | 36     | 28    | 35                       | 5.62  | +1.83                     | 1.72                 | 0                         | 16                           | 11    | 8          | 12                           | Passaic Consol. Water Co   |
| New Brunswick.....                   | Middlesex.....  | 110             | 74                      | 58.3                         | -2.1                      | 82      | 10    | 37     | 1     | 31                       | 3.72  | -0.17                     | 1.74                 | 0                         | 12                           | 10    | 12         | 9                            | N. J. Experiment Station.  |
| New Milford <sup>††</sup> .....      | Bergen.....     | 9               | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 4.70  | .....                     | 1.09                 | 0                         | 11                           | ..... | .....      | .....                        | Hackensack Water Co        |
| Paterson.....                        | Passaic.....    | 80              | 56                      | 59.2                         | -2.3                      | 80      | 11    | 40     | 28    | 31                       | 5.65  | +1.21                     | 1.26                 | 0                         | 14                           | 13    | 5          | 13                           | Marion T. Probert.         |
| Plainfield.....                      | Union.....      | 120             | 39                      | 56.8                         | -3.4                      | 79      | 10    | 35     | 28    | 34                       | 4.54  | +0.62                     | 1.91                 | 0                         | 15                           | 6     | 13         | 12                           | E. D. Pearson.             |
| Ridgefield.....                      | Bergen.....     | 80              | 10                      | 57.2                         | .....                     | 79      | 11    | 39     | 28    | 33                       | 5.91  | .....                     | 1.40                 | 0                         | 13                           | 8     | 8          | 15                           | George P. Kirsten.         |
| Somerville.....                      | Somerset.....   | 70              | 44                      | 59.0                         | -1.8                      | 84      | 10    | 33     | 1     | 36                       | 4.10  | +0.25                     | 1.94                 | 0                         | 12                           | 10    | 13         | 8                            | H. B. TenEyck.             |
| South Orange.....                    | Essex.....      | 200             | 57                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        |                            |
| Verona.....                          | Essex.....      | 490             | 1                       | 56.2                         | .....                     | 76      | 11    | 39     | 28    | 27                       | 6.11  | .....                     | 1.30                 | 0                         | 16                           | 4     | 10         | 17                           | Luther Davis.              |
| Woodcliff Lake <sup>††</sup> .....   | Bergen.....     | 100             | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 3.94  | .....                     | 0.84                 | 0                         | 13                           | ..... | .....      | .....                        | Hackensack Water Co.       |
| York, N. Y. ....                     |                 | 365             | 57                      | 58.0                         | -2.6                      | 77      | 23    | 44     | 28    | 27                       | 3.67  | +0.49                     | 1.09                 | 0                         | 14                           | 4     | 12         | 15                           | U. S. Weather Bureau.      |
| Means and extremes.....              |                 |                 |                         | 57.8                         | -2.7                      | 84      | 10    | 33     | 17    | 39                       | 4.76  | +0.74                     | 1.94                 | 0                         | 14                           | 9     | 10         | 12                           | nw.                        |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                            |
| Belleplain.....                      | Cape May.....   | 30              | 33                      | 57.3 <sup>†</sup>            | -3.8                      | 86      | 23    | 27     | 1     | .....                    | 2.48  | -1.34                     | 0.57                 | 0                         | 13                           | ..... | .....      | .....                        | Thomas J. Durell.          |
| Bridgeton.....                       | Cumberland..... | 90              | 46                      | 60.8                         | -3.2                      | 88      | 24    | 36     | 28    | 36                       | 2.42  | -1.42                     | 0.83                 | 0                         | 10                           | 9     | 10         | 12                           | Paul T. Kornman.           |
| Burlington.....                      | Burlington..... | 12              | 341                     | 61.0                         | -0.9                      | 83      | 10    | 38     | 2     | 31                       | 2.66  | -1.55                     | 0.65                 | 0                         | 11                           | 11    | 10         | 10                           | Public Service Power Co.   |
| Clayton.....                         | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        |                            |
| Hammononton.....                     | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        |                            |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | 59.0                         | -2.3                      | 86      | 10    | 33     | 1     | 38                       | 3.03  | -0.92                     | 0.82                 | 0                         | 13                           | 17    | 10         | 4                            | Charles Welsh.             |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 58.6                         | -3.3                      | 85      | 10    | 35     | 2     | 35                       | 2.26  | -1.36                     | 0.99                 | 0                         | 13                           | 10    | 16         | 5                            | Frank M. Lawrence.         |
| Indian Mills <sup>††</sup> .....     | Burlington..... | 76              | 38                      | 60.4                         | -1.7                      | 86      | 23    | 35     | 27    | 38                       | 2.12  | -1.12                     | 0.60                 | 0                         | 10                           | 7     | 16         | 8                            | James M. Armstrong.        |
| Lakewood.....                        | Ocean.....      | 54              | 23                      | 58.1                         | -2.1                      | 88      | 10    | 33     | 2     | 38                       | 2.09  | -1.31                     | 0.70                 | 0                         | 12                           | 9     | 6          | 16                           | R. W. Holman.              |
| Moorestown.....                      | Burlington..... | 75              | 64                      | 59.7                         | -1.6                      | 83      | 10    | 38     | 1     | 36                       | 2.02  | -2.00                     | 0.48                 | 0                         | 9                            | 9     | 11         | 11                           | John B. Warrick.           |
| Northfield <sup>††</sup> .....       | Atlantic.....   | 25              | 20                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 2.80  | -0.67                     | 0.78                 | 0                         | 11                           | ..... | .....      | .....                        | William L. Flick.          |
| Pleasantville <sup>††</sup> .....    | Atlantic.....   | 26              | 29                      | 57.8                         | .....                     | 84      | 23    | 34     | 28    | 36                       | 2.74  | -0.52                     | 0.76                 | 0                         | 14                           | 9     | 17         | 5                            | N. J. Dept. Conservation.  |
| Riverton.....                        | Burlington..... | 1               | 59.2                    | .....                        | 83                        | 10      | 40    | 17     | 32    | 2.41                     | ..... | 0.41                      | .....                | 0                         | 15                           | 12    | 4          | 15                           | Japanese Beetle Laboratory |
| Runyon <sup>††</sup> .....           | Middlesex.....  | 18              | 3                       | 57.2 <sup>a</sup>            | .....                     | 85      | 107   | 31     | 17    | 42                       | 3.59  | .....                     | 1.92                 | 0                         | 10                           | 9     | 19         | 3                            | N. J. Dept. Conservation.  |
| Trenton.....                         | Mercer.....     | 190             | 55                      | 59.0                         | -2.1                      | 82      | 10    | 42     | 1     | 30                       | 2.78  | -0.74                     | 0.92                 | 0                         | 15                           | 2     | 13         | 16                           | U. S. Weather Bureau.      |
| Tuckerton.....                       | Ocean.....      | 23              | 34                      | 59.8                         | +0.1                      | 87      | 23    | 38     | 28    | 34                       | 2.07  | -1.67                     | 0.80                 | 0                         | 10                           | ..... | .....      | .....                        | Mrs. George O. Hickman.    |
| Vineland.....                        | Cumberland..... | 109             | 58                      | 62.5 <sup>a</sup>            | -0.2                      | 85      | 23    | 37     | 28    | 34                       | 2.10  | -1.53                     | 0.33                 | 0                         | 12                           | 10    | 13         | 8                            | H. C. Himes                |
| Philadelphia, Pa. ....               |                 | 117             | 56                      | 61.6                         | -1.3                      | 82      | 10    | 43     | 1     | 26                       | 1.75  | -1.45                     | 0.46                 | 0                         | 13                           | 3     | 14         | 14                           | U. S. Weather Bureau.      |
| Means and extremes.....              |                 |                 |                         | 59.3                         | -1.9                      | 88      | 107   | 31     | 1     | 42                       | 2.50  | -1.24                     | 1.92                 | 0                         | 12                           | 10    | 12         | 9                            | sw.                        |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |                            |
| Asbury Park.....                     | Monmouth.....   | 22              | 38                      | 55.8 <sup>b</sup>            | -3.0                      | 78      | 11    | 41     | 1     | 25                       | 3.02  | -0.56                     | 1.70                 | 0                         | 10                           | 13    | 12         | 6                            | Information Bureau.        |
| Atlantic City.....                   | Atlantic.....   | 16              | 54                      | 57.5                         | -0.6                      | 80      | 23    | 43     | 1     | 27                       | 3.29  | +0.29                     | 1.22                 | 0                         | 15                           | 7     | 13         | 11                           | U. S. Weather Bureau.      |
| Cape May City.....                   | Cape May.....   | 17              | 43                      | 59.4                         | +0.8                      | 78      | 11    | 43     | 1     | 24                       | 2.41  | -0.58                     | 0.50                 | 0                         | 10                           | ..... | .....      | .....                        | U. S. Weather Bureau.      |
| Sandy Hook.....                      | Monmouth.....   | 22              | 29                      | 57.2                         | -1.3                      | 76      | 23    | 45     | 1     | 25                       | 2.78  | -0.92                     | 1.27                 | 0                         | 15                           | 7     | 13         | 11                           | U. S. Weather Bureau.      |
| Means and extremes.....              |                 |                 |                         | 57.5                         | -1.0                      | 80      | 23    | 41     | 1     | 27                       | 2.88  | -0.44                     | 1.70                 | 0                         | 12                           | 9     | 13         | 9                            | sw.                        |
| For the State.....                   |                 |                 |                         | 58.1                         | -2.3                      | 88      | 107   | 30     | 87    | 44                       | 3.65  | -0.21                     | 1.94                 | 0                         | 13                           | 9     | 10         | 12                           | nw.                        |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for May, 1927

| Stations                                   | Drainage Basin  | Day of month |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      | Total |      |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|----|-----|------|-----|-----|-----|------|------|------|------|-----|----|----|-----|------|-------|------|
|                                            |                 | 1            | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11   | 12  | 13  | 14  | 15  | 16  | 17 | 18  | 19   | 20  | 21  | 22  | 23   | 24   | 25   | 26   | 27  | 28 | 29 | 30  | 31   |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      |       |      |
| Belvidere.....                             | Delaware.....   |              | T   |     | .12 | .15 | .04 |     |     | .08 |     | .45  |     |     | .06 | .29 | T   |    | .01 | .95  |     |     |     | .34  | .56  | .82  | .10  |     |    |    |     | .01  | 3.98  |      |
| Charlotteburg.....                         | Passaic.....    |              |     | .03 | .06 | .13 | .02 |     |     | .40 | .04 | .70  | .01 |     |     | .75 | .02 |    | .05 | .14  |     |     |     | .04  | .97  | .60  | .07  | .11 |    |    |     |      | 4.14  |      |
| Culvers Lake.....                          | Delaware.....   |              |     | .01 | .22 | .01 | T   |     |     | .01 | .02 | .25  |     |     | .02 | .52 | .02 |    | .08 | .18  |     |     |     | .23  | .92  | .88  | .11  |     |    |    |     |      | 5.48  |      |
| Dover.....                                 | Passaic.....    |              | T   | .03 | .18 |     |     |     |     | .22 | .43 |      | .02 | T   |     | .79 | .01 |    | .02 | .44  | .03 |     |     | 1.13 | *    | .84  | .40  |     |    |    |     | .08  | 4.62  |      |
| Layton.....                                | Delaware.....   |              |     | .03 | .15 |     |     |     |     | .46 | *   | .28  |     |     | .16 | .18 |     |    | .17 | .17  |     |     |     | .40  | .84  | 1.11 | .03  |     |    |    |     | 3.98 |       |      |
| Newton.....                                | Delaware.....   |              |     | T   | .24 | .01 | .02 |     |     | .22 | .58 |      |     |     | .41 |     |     |    | .07 | .17  |     |     |     | .66  | .47  | .69  | .14  |     |    |    | .04 | 3.72 |       |      |
| Phillipsburg.....                          | do.....         |              | T   |     | .24 |     | T   |     |     | T   | .35 |      | T   |     | .20 | .08 | T   |    | T   | .26  |     |     |     | .03  | T    | .77  | T    |     |    |    |     | 1.93 |       |      |
| Sussex.....                                | Hudson.....     |              |     |     | .06 | .16 |     |     |     | .64 |     | .60  |     |     |     | .74 | .03 |    | .12 | .13  |     |     |     | .18  | 1.03 | .70  | .45  |     |    |    |     |      | 4.84  |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      |       |      |
| Bergen Point**.....                        | Coast.....      |              | T   |     |     |     | .04 |     |     | .27 | .35 |      |     |     | .17 | .22 | .01 |    | T   | .28  | .06 |     |     | .84  | .06  | 1.26 | .24  |     |    |    |     | T    | 3.80  |      |
| Boonton   .....                            | Passaic.....    |              | T   | .03 | .10 | .01 | T   |     |     | .05 | .24 | .50  | T   |     |     | .74 | .07 |    | T   | .43  |     |     |     | T    | 1.09 | .85  | .28  | .14 |    |    | .05 | 4.58 |       |      |
| Chatham  .....                             | do.....         |              |     | .05 | .01 | .12 | .01 | .03 |     | .09 | .21 | 1.24 | .19 |     |     | .61 | .24 | T  |     | .03  | .72 |     |     | T    | 1.65 | 1.71 | .28  | .95 |    |    |     |      | 8.16  |      |
| Elizabeth.....                             | Coast.....      |              | T   |     | .05 | .05 |     |     |     | .31 | .01 | .34  | .05 |     |     | .43 | .07 | T  |     | .30  |     |     |     |      | .15  | .70  | 1.00 | .29 |    |    |     |      | 3.75  |      |
| Flemington.....                            | Raritan.....    |              |     | .18 | .02 | .12 |     |     |     | .09 |     | .52  | .03 |     | T   | .56 |     |    | T   | .10  | .02 |     |     |      | .09  | .05  | 1.53 | .12 |    |    |     | .03  | 3.46  |      |
| Highwood.....                              | Hackensack..... |              | T   | .03 |     |     |     |     |     | .34 |     | .46  | T   |     |     | .55 | .22 |    | T   | .33  | .01 |     | .02 |      | .82  | 1.01 | 1.17 | .23 |    |    |     |      | 5.19  |      |
| Jersey City.....                           | Coast.....      |              | .07 | T   | T   |     | .01 |     |     | .22 | T   | .46  | .05 |     | T   | .30 | .01 |    | T   | .30  | .09 |     |     |      | .76  | .44  | .70  | .24 | T  |    |     | T    | 3.65  |      |
| Lambertville.....                          | Delaware.....   |              | T   | .22 |     | .08 |     |     |     | *   |     | .76  | .04 |     | .03 | .48 |     |    | .04 | .11  | .22 |     |     | .11  | .01  | 1.73 | .16  |     |    |    |     | .05  | 4.04  |      |
| Little Falls,   .....                      | Passaic.....    |              | T   | .03 | .07 | .05 | .01 |     |     | .03 | .23 | .60  | .01 |     |     | .72 | .19 |    |     | .30  | .50 |     |     |      | .17  | .87  | .88  | .20 |    |    |     |      | 5.62  |      |
| New Brunswick.....                         | Raritan.....    |              | T   |     | .08 | .04 |     |     |     | .15 | .01 | .53  | .05 |     |     | .46 | T   |    | T   | .16  | .11 |     |     | T    | .13  | 1.74 | .26  |     |    |    |     | T    | .03   | 3.72 |
| New Milford.**.....                        | Hackensack..... |              |     | .04 |     |     |     |     |     | .43 | .38 |      |     |     | .06 | .56 | .01 |    | .22 |      |     |     |     |      | .95  | .52  | 1.09 | .44 |    |    |     |      | 4.70  |      |
| Paterson.....                              | Passaic.....    |              | T   | T   | .03 | .05 |     |     |     | .30 | .04 | .60  | .03 |     |     | .65 | .15 |    |     | .39  |     |     |     |      | .56  | 1.13 | 1.26 | .46 |    |    |     |      | 5.65  |      |
| Plainfield.....                            | Raritan.....    |              | T   | T   | .18 |     | .05 |     |     | .17 |     | .52  | .05 |     | *   | .72 | .01 | T  |     | .22  | .07 |     |     |      | .52  | .03  | 1.91 | .09 |    |    |     | T    | 4.54  |      |
| Ridgefield.....                            | Hackensack..... |              | .05 | T   |     | .03 | T   |     |     | .35 | .49 |      | .04 |     |     | .33 | .26 |    | T   | .50  | .03 |     |     | T    | .70  | 1.40 | .84  | .89 |    |    |     | T    | 5.91  |      |
| Somerville.....                            | Raritan.....    |              |     |     | .34 | .12 |     |     |     | .18 |     | .50  |     |     |     | .44 | .08 |    |     | .12  | .10 |     |     |      | .08  | .06  | 1.94 | .14 |    |    |     |      | 4.10  |      |
| South Orange.....                          | Rahway.....     |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      |       |      |
| Verona**.....                              | Passaic.....    |              |     | .01 | .06 |     | .03 |     |     | .27 | .64 |      | .02 |     |     | .42 | .63 |    |     | .01  | .56 | .01 |     |      | 1.16 | .66  | 1.30 | .31 |    |    |     | .02  | 6.11  |      |
| Woodcliff Lake**.....                      | Hackensack..... |              | .02 | .01 |     |     |     |     | .04 | .80 | .07 | .40  |     |     |     | .27 | .30 |    |     | .16  |     |     |     |      | .48  | .55  | .72  | .12 |    |    |     |      | 3.94  |      |
| New York, N. Y***.....                     | Coast.....      |              | .05 | T   | T   |     | .01 |     |     | .21 | .40 |      | .05 |     | .11 | .21 | .01 |    | T   | .31  | .07 |     |     |      | .70  | .41  | .87  | .26 | T  |    |     |      | 3.67  |      |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |     |     | *   | .20 | .37 |     |     | .14 |     | *    | .57 |     | *   | *   | .20 |    | .07 | .36  |     |     |     |      |      |      | .50  |     |    |    | .07 | 2.48 |       |      |
| Bridgeton.....                             | Coast.....      |              |     |     | .45 |     | .26 |     |     | *   |     | .76  | .07 |     | .20 |     |     |    | .14 |      | .04 |     |     |      |      | .31  | .19  |     |    |    |     | .07  | 2.42  |      |
| Burlington.....                            | Delaware.....   |              | .08 |     |     | .30 | .11 |     |     | .18 |     | .47  | .18 |     |     | .29 |     |    | T   | .02  |     |     |     |      | T    | .50  | .46  |     |    |    | T   | .07  | 2.66  |      |
| Clayton.....                               | Delaware.....   |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      |       |      |
| Hammonton.....                             | Mullica.....    |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      |       |      |
| Hightstown.....                            | Raritan.....    |              | .10 |     |     | .15 | .05 |     |     | .17 |     | .46  | .04 |     |     | .32 |     |    |     | .08  | .06 | .13 |     |      | .19  | .82  | .46  |     |    |    |     |      | 3.03  |      |
| Imlaystown.....                            | Delaware.....   |              |     | .04 |     | .05 | .06 |     |     | .10 |     | .23  | .03 |     |     | .26 |     |    | .02 | .03  | .02 |     |     |      |      | .99  | .40  |     |    |    | .03 | 2.26 |       |      |
| Indian Mills.....                          | Mullica.....    |              |     | .22 |     | .12 |     |     |     | .24 |     | .60  | .04 | .02 | T   | .25 |     |    |     | .06  |     |     |     |      |      | .44  | .13  |     |    |    |     |      | 2.12  |      |
| Lakewood.....                              | Metedeconk..... |              |     | .02 |     | .03 | .12 |     |     | .13 |     | .32  | T   |     |     | .18 |     |    |     | .04  |     |     |     |      | .04  | .05  | .70  | .41 |    |    | .05 | T    | 2.09  |      |
| Moorestown.....                            | Delaware.....   |              |     | .30 |     | .13 |     |     |     | .18 |     | .48  | .02 |     |     | .25 |     |    | .02 | T    |     |     |     |      |      | .36  | .28  |     |    |    |     |      | 2.02  |      |
| Northfield.....                            | Coast.....      |              | T   |     | .04 | .07 | .27 |     |     | .21 |     | .75  | .01 |     |     | .10 | .11 |    | .01 |      | .78 |     |     |      |      | .17  | .29  |     |    |    |     |      | 2.80  |      |
| Pleasantville   .....                      | Coast.....      |              | .02 |     |     | .12 | .13 | .16 |     | .18 |     | .67  | .01 |     |     | .09 | .08 | T  |     | .03  | .73 |     |     |      | T    |      | .43  | .09 |    |    |     |      | 2.74  |      |
| Riverton   .....                           | Delaware.....   |              | .19 |     |     | .37 | .06 | .05 |     | .27 | T   | .41  | .09 |     |     | .23 | .06 |    | T   | .01  | .01 |     |     |      |      | .04  | .20  | .40 |    |    | T   | .02  | 2.41  |      |
| Runyon.....                                | Coast.....      |              |     |     | .04 | .04 |     |     |     | .11 |     | .40  |     |     |     | .27 | .06 |    |     | .19  | .28 |     |     |      |      | .12  | 1.92 | .22 |    |    |     |      | 3.59  |      |
| Trenton***.....                            | Delaware.....   |              |     | .03 | .21 |     | .04 |     |     | .19 | .61 | T    | .03 |     |     | .13 |     |    | T   | .03  | .01 |     |     |      | .02  | .38  | .54  | .25 |    |    | .08 |      | 2.78  |      |
| Tuckerton.....                             | Coast.....      |              |     |     | .12 | .22 |     |     |     | .20 |     | .80  | .03 |     |     | .14 | .03 |    |     |      | .11 |     |     |      | .02  |      | .40  |     |    |    |     |      | 2.07  |      |
| Vineland.....                              | Maurice.....    |              |     | .33 |     | .24 |     |     |     | .14 |     | .24  | .08 | .01 |     | .31 | .04 |    | .05 |      | .22 |     |     |      |      | .16  | .26  |     |    |    |     |      | 2.10  |      |
| Phila., Pa***.....                         | Delaware.....   |              |     | .37 |     | .12 |     | .06 |     | .16 | .42 | .04  | .02 |     | .23 | .03 |     | T  | .05 | T    |     |     |     | T    | T    | .04  | .20  |     |    |    |     | .01  | 1.75  |      |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |    |     |      |     |     |     |      |      |      |      |     |    |    |     |      |       |      |
| Asbury Park.....                           | Coast.....      |              |     |     | .02 |     | .05 |     |     | .08 |     | .30  | T   |     | T   | .30 | T   |    | .02 | .10  | T   |     |     | T    |      | .10  | 1.70 | .35 |    |    |     |      | 3.02  |      |
| Atlantic City***.....                      | do.....         |              |     |     | .08 | T   | .24 |     | .01 | .16 | .84 | .04  | .01 |     | .09 | .10 | .03 |    | .01 | 1.13 | .09 |     |     | T    |      | .43  | .03  |     |    |    |     | T    | 3.29  |      |
| Cape May City.....                         | do.....         |              | T   |     | .35 | T   | .44 |     | T   | .18 |     | .50  | T   |     | .10 | .05 | T   |    | .08 | T    | .12 |     |     | T    |      | .30  | .29  |     |    |    |     |      | 2.41  |      |
| Sandy Hook***.....                         | do.....         |              | T   | T   | .02 |     | .03 |     |     | .09 | .22 | .01  | .07 |     | .14 | .07 | T   |    | T   | .21  | .10 |     |     | T    | .27  | .01  | 1.27 | .26 |    |    |     | .01  | 2.78  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                            |                                       |                                      | Sunshine                        |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-------------------------------------|---------------------------------------|--------------------------------------|---------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity per cent at 8 a m | Relative humidity, per cent at 2 noon | Relative humidity, per cent at 8 p m | Percentage of possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                     |                                       |                                      |                                 |
| Atlantic City.....    | 29.93        | 30.46   | 22   | 29.57  | 26   | 15.3            | 46             | s.        | 10   | 79                                  | 69                                    | 81                                   | 57                              |
| New York, N. Y.....   | 29.92        | 30.48   | 21   | 29.53  | 26   | 14.8            | 54             | nw.       | 27   | 72                                  | 58                                    | 70                                   | 52                              |
| Philadelphia, Pa..... | 29.92        | 30.47   | 21   | 29.53  | 26   | 8.3             | 38             | sw.       | 10   | 84                                  | 75                                    | 79                                   | 48                              |
| Ridgefield.....       | 29.92        | 30.49   | 21   | 29.53  | 26   |                 |                |           |      |                                     |                                       |                                      |                                 |
| Riverton.....         |              |         |      |        |      |                 |                |           |      |                                     |                                       |                                      |                                 |
| Sandy Hook.....       | 29.92        | 30.47   | 21   | 29.53  | 26   | 12.9            | 51             | w.        | 26   | 78                                  | 58                                    | 73                                   |                                 |
| Trenton.....          | 29.92        | 30.47   | 21   | 29.53  | 26   | 10.6            | 48             | w.        | 26   | 77                                  | 66                                    | 75                                   | 56                              |
| Verona.....           | 29.92        | 30.48   | 21   | 29.49  | 26   | 6.2             | 29             | nw.       | 27   | 72                                  | 64                                    | 75                                   | 60                              |
|                       |              |         |      |        |      |                 |                |           |      |                                     |                                       |                                      | 60                              |



## Daily Temperatures for May, 1927

| Stations                             | 1       | 2  | 3  | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | Mean              |                   |                   |
|--------------------------------------|---------|----|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |                   |                   |
| Belvidere.....                       | Maximum | 69 | 66 | 74   | 70   | 71   | 74   | 75   | 68   | 66   | 81   | 78   | 69   | 62   | 68   | 65   | 59   | 67   | 68   | 62   | 70   | 76   | 78   | 79   | 61   | 61   | .... | 63   | 74   | 79   | 78   | 70                | 70.0 <sup>a</sup> |                   |
|                                      | Minimum | 35 | 37 | 38   | 49   | 46   | 49   | 48   | 40   | 48   | 54   | 59   | 51   | 48   | 40   | 49   | 38   | 46   | 44   | 48   | 50   | 42   | .... | 59   | 50   | 47   | 54   | 47   | 39   | 39   | 51   | ....              | 46.4 <sup>b</sup> |                   |
| Charlotteburg.....                   | Maximum | 64 | 65 | 70   | 60   | 70   | 71   | 74   | 71   | 68   | 65   | 76   | 70   | 67   | 65   | 63   | 57   | 63   | 72   | 67   | 65   | 67   | 72   | 73   | 67   | 57   | 70   | 64   | 60   | 73   | 74   | 72                | 67.5              |                   |
|                                      | Minimum | 35 | 37 | 36   | 46   | 41   | 46   | 43   | 33   | 45   | 49   | 54   | 50   | 44   | 33   | 40   | 33   | 40   | 35   | 44   | 43   | 33   | 49   | 60   | 45   | 45   | 50   | 45   | 36   | 30   | 40   | 51                | 42.3              |                   |
| Dover.....                           | Maximum | 67 | 65 | 70   | 60   | 70   | 72   | 72   | 65   | 62   | 73   | 77   | 65   | 62   | 65   | 65   | 61   | 65   | .... | 60   | 69   | 73   | 73   | 75   | 59   | 59   | 70   | 60   | 70   | 74   | 72   | 65                | 67.2 <sup>a</sup> |                   |
|                                      | Minimum | 39 | 36 | 38   | 45   | 44   | 48   | 42   | 38   | 47   | 51   | 57   | 50   | .... | 39   | 46   | 38   | 44   | 41   | 49   | 47   | 39   | 51   | 51   | 46   | 46   | 53   | 45   | 36   | 36   | 47   | 54                | 44.8 <sup>a</sup> |                   |
| Layton.....                          | Maximum | 70 | 65 | 68   | 62   | 71   | 72   | 72   | 65   | 62   | 80   | 76   | 62   | 61   | 65   | 64   | 58   | 63   | 67   | 58   | 65   | 73   | 75   | 75   | 53   | 60   | 78   | 60   | 69   | 75   | 76   | 67                | 67.3              |                   |
|                                      | Minimum | 32 | 35 | 32   | 47   | 45   | 48   | 38   | 30   | 45   | 52   | 57   | 45   | 48   | 35   | 50   | 33   | 42   | 40   | 45   | 50   | 46   | 52   | 53   | 50   | 46   | 52   | 46   | 32   | 31   | 43   | 55                | 43.7              |                   |
| Newton.....                          | Maximum | 65 | 68 | 70   | 61   | 69   | 73   | 70   | 66   | 64   | 80   | 74   | 64   | 61   | 60   | 65   | 63   | 65   | 67   | 58   | 66   | 73   | 74   | 76   | 52   | 60   | 71   | 59   | 68   | 74   | 75   | 66                | 66.8              |                   |
|                                      | Minimum | 38 | 43 | 38   | 45   | 43   | 52   | 45   | 40   | 41   | 52   | 60   | 48   | 48   | 45   | 46   | 40   | 39   | 47   | 48   | 47   | 44   | 50   | 50   | 47   | 45   | 52   | 45   | 41   | 42   | 49   | 53                | 45.9              |                   |
| Phillipsburg.....                    | Maximum | 69 | 65 | 75   | 62   | 68   | 71   | 72   | 71   | 68   | 87   | 83   | 64   | 60   | 70   | 64   | 56   | 63   | 67   | 57   | 68   | 70   | 80   | 85   | 65   | 66   | 80   | 67   | 67   | 75   | 72   | 66                | 69.5              |                   |
|                                      | Minimum | 37 | 39 | 50   | 48   | 47   | 49   | 47   | 42   | 49   | 54   | 57   | 53   | 50   | 48   | 48   | 40   | 49   | 45   | 51   | 50   | 43   | 52   | 54   | 49   | 49   | 53   | 50   | 42   | 39   | 54   | ....              | 47.9 <sup>a</sup> |                   |
| Sussex.....                          | Maximum | 65 | 66 | 72   | 67   | 70   | 73   | 69   | 67   | 64   | 76   | 78   | 72   | 64   | 66   | 65   | 61   | 65   | 67   | 58   | .... | 74   | 76   | 74   | 53   | 57   | 73   | 59   | 68   | 77   | 66   | 68.0 <sup>a</sup> |                   |                   |
|                                      | Minimum | 34 | 36 | 35   | 49   | 45   | 45   | 40   | 34   | 48   | 54   | 57   | 48   | 49   | 36   | 47   | 35   | 41   | 39   | 45   | .... | 38   | 52   | 53   | 48   | 47   | 52   | 47   | 35   | 35   | 46   | 55                | 44.2 <sup>a</sup> |                   |
| The Red Sandstone Plain.             |         |    |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |                   |                   |
| Bergen Point.....                    | Maximum | 66 | 66 | 70   | 64   | 73   | 69   | 71   | 63   | 63   | 69   | 74   | 69   | 66   | 64   | 68   | 65   | 68   | 73   | 62   | 71   | 67   | 69   | 74   | 52   | 62   | 73   | 62   | 72   | 73   | 66   | 67.6              |                   |                   |
|                                      | Minimum | 42 | 45 | 45   | 49   | 49   | 53   | 52   | 49   | 49   | 49   | 60   | 49   | 51   | 56   | 50   | 46   | 48   | 50   | 50   | 50   | 49   | 53   | 48   | 50   | 49   | 49   | 52   | 44   | 49   | 49   | 53                | 49.6              |                   |
| Boonton§§.....                       | Maximum | 65 | 64 | 70   | 60   | 68   | 71   | 69   | 65   | 61   | 67   | 76   | 64   | 62   | 68   | 63   | 60   | 66   | 68   | 56   | 60   | 72   | 72   | 75   | 52   | 60   | 72   | 59   | 68   | 75   | 76   | 66                | 66.1              |                   |
|                                      | Minimum | 35 | 35 | 40   | 45   | 43   | 46   | 42   | 44   | 47   | 48   | 51   | 51   | 49   | 37   | 45   | 36   | 43   | 40   | 46   | 45   | 43   | 50   | 52   | 47   | 46   | 48   | 49   | 33   | 36   | 47   | 52                | 44.2              |                   |
| Elizabeth.....                       | Maximum | 71 | 74 | 72   | 68   | 72   | 76   | 76   | .... | 59   | 69   | 80   | 75   | 66   | 66   | 68   | 65   | 68   | 74   | .... | 73   | .... | 80   | .... | 61   | 77   | 63   | 72   | 75   | 78   | .... | 71.1 <sup>a</sup> |                   |                   |
|                                      | Minimum | 38 | 39 | 39   | 50   | 46   | 51   | 47   | 43   | 49   | 51   | 52   | 53   | 49   | 41   | 49   | 42   | 48   | 44   | .... | 49   | 47   | 44   | 52   | 58   | 49   | 45   | 55   | 53   | 40   | 44   | 53                | 47.5              |                   |
| Flemington.....                      | Maximum | 70 | 68 | 74   | 70   | 73   | 71   | 73   | 69   | 62   | 82   | 79   | 73   | 64   | 69   | 63   | 61   | 69   | 67   | 63   | 70   | 76   | 76   | 81   | 57   | 60   | 72   | 62   | 72   | 74   | 73   | 69                | 69.7              |                   |
|                                      | Minimum | 40 | 39 | 40   | 47   | 45   | 53   | 50   | 41   | 49   | 52   | 59   | 53   | 47   | 40   | 48   | 41   | 48   | 46   | 50   | 48   | 42   | 52   | 56   | 50   | 49   | 57   | 49   | 40   | 40   | 54   | 55                | 47.7              |                   |
| Highwood.....                        | Maximum | 67 | 67 | .... | 60   | 72   | 71   | 72   | 65   | 57   | 66   | 77   | 65   | 67   | 65   | 68   | 66   | 61   | 66   | 71   | 61   | 69   | 70   | 69   | 73   | 54   | 59   | 70   | 60   | 70   | 73   | 74                | 65                | 66.9 <sup>a</sup> |
|                                      | Minimum | 36 | 39 | 38   | 47   | 46   | 46   | 44   | 41   | 50   | 52   | 57   | 52   | 48   | 42   | 50   | 42   | 45   | 46   | 47   | 46   | 41   | 54   | 51   | 48   | 47   | 50   | 50   | 40   | 42   | 50   | 52                | 46.4              |                   |
| Jersey City.....                     | Maximum | 66 | 63 | 70   | 64   | 69   | 69   | 72   | 63   | 63   | 77   | 78   | 68   | 64   | 65   | 64   | 64   | 68   | 70   | 58   | 70   | 67   | 69   | 78   | 53   | 63   | 71   | 61   | 68   | 73   | 73   | 68                | 67.4              |                   |
|                                      | Minimum | 45 | 48 | 47   | 47   | 46   | 56   | 53   | 50   | 48   | 51   | 59   | 51   | 50   | 49   | 39   | 48   | 50   | 50   | 52   | 50   | 52   | 53   | 50   | 49   | 48   | 55   | 50   | 44   | 56   | 54   | 56                | 50.5              |                   |
| Lambertville.....                    | Maximum | 65 | 66 | 73   | 64   | 70   | 69   | 71   | 66   | 62   | 81   | 76   | 64   | 60   | 69   | 69   | 60   | 66   | 65   | 65   | 65   | 69   | 73   | 73   | 80   | 53   | 60   | 72   | 61   | 70   | 76   | 74                | 69                | 67.6              |
|                                      | Minimum | 40 | 45 | 45   | 46   | 44   | 54   | 49   | 44   | 48   | 50   | 58   | 50   | 46   | 44   | 50   | 42   | 46   | 48   | 51   | 47   | 45   | 51   | 52   | 49   | 48   | 56   | 40   | 39   | 47   | 53   | 54                | 47.8              |                   |
| Little Falls§§.....                  | Maximum | 67 | 67 | 68   | 61   | 65   | 73   | 73   | 67   | 59   | 65   | 79   | 67   | 64   | 68   | 64   | 67   | 62   | 60   | 70   | 73   | 76   | 77   | 63   | 59   | 74   | 60   | 71   | 74   | 77   | 67   | 68.2              |                   |                   |
|                                      | Minimum | 37 | 38 | 39   | 48   | 45   | 47   | 43   | 39   | 49   | 50   | 53   | 52   | 49   | 41   | 41   | 40   | 46   | 43   | 49   | 47   | 41   | 53   | 63   | 48   | 42   | 47   | 50   | 36   | 39   | 49   | 53                | 45.7              |                   |
| New Brunswick.....                   | Maximum | 66 | 66 | 72   | 67   | 71   | 71   | 71   | 69   | 62   | 82   | 80   | 72   | 64   | 68   | 64   | 63   | 65   | 69   | 62   | 69   | 69   | 75   | 78   | 54   | 60   | 72   | 62   | 68   | 71   | 71   | 69                | 68.5              |                   |
|                                      | Minimum | 37 | 40 | 41   | 48   | 45   | 53   | 50   | 46   | 49   | 51   | 59   | 51   | 48   | 42   | 50   | 44   | 47   | 48   | 50   | 47   | 45   | 52   | 54   | 49   | 48   | 56   | 51   | 40   | 42   | 52   | 55                | 48.1              |                   |
| Paterson.....                        | Maximum | 69 | 69 | 73   | 62   | 73   | 71   | 73   | 68   | 62   | 66   | 80   | 73   | 67   | 69   | 69   | 66   | 70   | 75   | 63   | 72   | 72   | 70   | 76   | 55   | 59   | 72   | 62   | 71   | 76   | 75   | 69                | 69.5              |                   |
|                                      | Minimum | 41 | 45 | 44   | 51   | 46   | 52   | 48   | 42   | 50   | 52   | 58   | 54   | 51   | 46   | 51   | 44   | 46   | 49   | 52   | 49   | 46   | 54   | 55   | 49   | 48   | 52   | 40   | 46   | 52   | 55   | 49.0              |                   |                   |
| Plainfield.....                      | Maximum | 69 | 63 | 72   | 66   | 72   | 70   | 74   | 64   | 64   | 79   | 78   | 68   | 64   | 68   | 65   | 65   | 68   | 70   | 54   | 70   | 68   | 75   | 78   | 55   | 64   | 72   | 62   | 69   | 74   | 74   | 68                | 68.5              |                   |
|                                      | Minimum | 37 | 36 | 44   | 41   | 45   | 49   | 44   | 39   | 46   | 46   | 53   | 48   | 47   | 39   | 47   | 39   | 45   | 46   | 47   | 47   | 41   | 50   | 55   | 49   | 48   | 50   | 50   | 35   | 40   | 50   | 49                | 45.2              |                   |
| Ridgefield.....                      | Maximum | 63 | 63 | 67   | 61   | 71   | 67   | 72   | 64   | 55   | 65   | 79   | 67   | 65   | 66   | 66   | 63   | 68   | 71   | 56   | 71   | 72   | 69   | 75   | 51   | 59   | 68   | 62   | 72   | 73   | 74   | 66                | 66.5              |                   |
|                                      | Minimum | 45 | 49 | 42   | 46   | 45   | 51   | 49   | 44   | 58   | 50   | 57   | 52   | 48   | 45   | 44   | 46   | 51   | 48   | 48   | 44   | 54   | 49   | 48   | 48   | 53   | 45   | 39   | 43   | 61   | 53   | 48.0              |                   |                   |
| Somerville.....                      | Maximum | 68 | 67 | 75   | 70   | 73   | 70   | 74   | 71   | 60   | 84   | 83   | 75   | 67   | 71   | 68   | 64   | 68   | 71   | 64   | 71   | 74   | 77   | 80   | 58   | 64   | 75   | 64   | 75   | 71   | 75   | 70                | 70.9              |                   |
|                                      | Minimum | 33 | 35 | 41   | 50   | 46   | 51   | 44   | 45   | 49   | 52   | 58   | 52   | 47   | 38   | 49   | 38   | 48   | 42   | 46   | 46   | 42   | 51   | 54   | 49   | 49   | 58   | 50   | 39   | .... | 52   | 55                | 47.0 <sup>a</sup> |                   |
| South Orange.....                    | Maximum | 64 | 64 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ....              | ....              |                   |
|                                      | Minimum | 44 | 44 | 43   | 46   | 44   | 54   | 51   | 47   | 48   | 51   | 58   | 50   | 49   | 45   | 46   | 43   | 46   | 48   | 48   | 44   | 52   | 48   | 46   | 46   | 54   | 42   | 39   | 44   | 52   | 53   | 47.5              |                   |                   |
| Yonkers.....                         | Maximum | 63 | 63 | 67   | 63   | 67   | 65   | 67   | 62   | 59   | 73   | 76   | 65   | 63   | 61   | 62   | 61   | 65   | 67   | 60   | 67   | 66   | 64   | 77   | 53   | 62   | 68   | 58   | 68   | 70   | 71   | 65                | 65.1              |                   |
|                                      | Minimum | 45 | 49 | 47   | 47   | 47   | 57</ |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                   |                   |                   |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXII.

JUNE, 1927.

No. 6

### GENERAL SUMMARY.

Weather conditions during June as a whole were more than ordinarily pleasant; there were but few uncomfortably hot days; rain was deficient both in frequency and amount; and fair weather prevailed to a greater extent than usual. The climate of this region and of practically all continental temperate zones is usually abnormal; i. e. the so called normal is made up from the habitually recurring changeableness of the various weather sequences. From this standpoint it was a typical June; not as warm as some, but warmer than some others. The rainfall was adequate in many sections of the State for customary needs, but was deficient in others. The warm periods of the month were from the 9th to the 12th, 23d and 29th, and although it was warmer over the western half of the State, the departure from normal warmth was less near the coast than elsewhere.

The lack of rain, added to the accumulated deficiency thus far this season, was unfavorable to the best growth of vegetation of certain kinds, but hay and potatoes seemed to be very favorably affected.

The persistent and accumulating deficiency in rain is becoming rather a prominent and important feature for the year thus far.

Storm warnings were displayed along the coast on the 14th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 65.4°, which was 3.2° below normal. The highest temperature was 97° at Phillipsburg on the 10th, and at Belvidere on the 29th, and the lowest, 31°, at Belleplain on the 2d. The greatest daily range was 44° at Runyon on the 2d. The highest monthly mean temperature was 68.4° at Vineland, and the lowest, 61.8° at Layton.

The temperature departure from the normal for the year, 1927, to date, by sections, is: The Highlands, +0.5°; Red Sandstone Plain, 0.0; Southern Interior, +0.4°; Sea Coast, +0.7°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 44 stations, was 3.16 inches, which was 0.60 inch below normal.

The greatest monthly precipitation was 5.24 inches, at Belvidere, and the least, 1.46 inches, at Tuckerton. The greatest amount of precipitation in any 24 consecutive hours was 1.70 inches at Belvidere on the 19th-20th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 9, or 1 less than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -4.47 inches; Red Sandstone Plain, -5.94 inches; Southern Interior, -7.69 inches; Sea Coast, -6.92 inches.

### WIND.

The prevailing wind direction was from the northwest. The

wind movement averaged 11 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive minutes, was 50 miles per hour from the northwest at Sandy Hook on the 5th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 15, which was 2 more than normal; partly cloudy, 9, or 1 less than normal; cloudy, 6, or 1 less than normal. The per cent of possible sunshine was 66, which was 5 per cent above normal.

### MISCELLANEOUS.

The mean stage of the Delaware at Phillipsburg was 3.2 feet, and the highest 5.0 feet on the 20th. At Trenton the mean daily stage was 1.8 feet, which was 0.1 foot below normal; the highest stage was 2.9 feet on the 1st.

The mean atmospheric pressure, reduced to sea level, was 30.00 inches, which was 0.02 inch above normal. The highest reading was 30.30 inches at Atlantic City on the 28th, and the lowest, 29.62 at Verona on the 10th.

Thunderstorms occurred on the 4th, 5th, 9th, 10th, 11th, 14th, 22d to 26th inclusive, 29th and 30th. Solar halos were observed on the 4th, 6th, 7th, 9th, 15th and 17th; and a lunar halo was observed on the 6th. Dense fog was noted on the 18th and 26th. An earthquake occurred on the 1st. Frost caused slight damage in the cranberry bogs on the 2d. Light frost occurred in the extreme northern portions on the 7th.

### COMPARATIVE DATA FOR JUNE

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 68.7        | 97      | 39     | 1.79          | 3.37     | 0.72  | .....       | .....         | .....  | .....                  |
| 1886..... | 67.1        | 91      | 41     | 3.38          | 5.79     | 2.22  | .....       | .....         | .....  | .....                  |
| 1887..... | 68.2        | 97      | 42     | 6.77          | 10.29    | 4.21  | .....       | .....         | 9      | 10                     |
| 1888..... | 70.8        | 99      | 39     | 2.59          | 5.69     | 1.67  | .....       | .....         | 5      | 6                      |
| 1889..... | 69.9        | 91      | 40     | 3.73          | 6.75     | 2.39  | .....       | .....         | 10     | 10                     |
| 1890..... | 70.7        | 95      | 42     | 3.59          | 5.16     | 0.99  | 11          | 13            | 6      | 7                      |
| 1891..... | 69.7        | 102     | 38     | 2.92          | 6.71     | 1.24  | 14          | 9             | 7      | 5                      |
| 1892..... | 72.4        | 98      | 44     | 3.85          | 6.12     | 1.58  | 10          | 12            | 8      | 11                     |
| 1893..... | 69.7        | 103     | 40     | 2.95          | 7.02     | 0.46  | 10          | 11            | 9      | 8                      |
| 1894..... | 70.6        | 102     | 35     | 2.28          | 5.90     | 0.99  | 14          | 11            | 5      | 9                      |
| 1895..... | 71.7        | 103     | 39     | 3.24          | 5.99     | 0.93  | 11          | 11            | 8      | 10                     |
| 1896..... | 68.1        | 96      | 37     | 5.46          | 13.45    | 2.64  | 12          | 10            | 8      | 10                     |
| 1897..... | 66.1        | 95      | 35     | 3.38          | 5.50     | 2.12  | 10          | 13            | 7      | 10                     |
| 1898..... | 70.1        | 100     | 38     | 2.10          | 3.54     | 1.13  | 14          | 12            | 4      | 8                      |
| 1899..... | 72.3        | 103     | 38     | 2.50          | 4.34     | 1.01  | 15          | 10            | 5      | 7                      |
| 1900..... | 70.4        | 97      | 39     | 3.08          | 4.91     | 1.10  | 12          | 12            | 6      | 8                      |
| 1901..... | 70.0        | 103     | 35     | 1.57          | 4.36     | 0.73  | 18          | 8             | 4      | 5                      |
| 1902..... | 67.5        | 99      | 37     | 6.57          | 10.21    | 4.54  | 14          | 11            | 5      | 11                     |
| 1903..... | 64.0        | 92      | 37     | 7.68          | 15.02    | 2.39  | 6           | 10            | 14     | 15                     |
| 1904..... | 68.6        | 100     | 34     | 3.13          | 5.44     | 1.91  | 13          | 10            | 7      | 12                     |
| 1905..... | 68.3        | 96      | 35     | 3.43          | 8.71     | 1.67  | 11          | 12            | 7      | 10                     |
| 1906..... | 70.4        | 98      | 38     | 4.48          | 9.18     | 1.45  | 11          | 11            | 8      | 12                     |
| 1907..... | 64.7        | 96      | 31     | 4.41          | 6.85     | 3.15  | 12          | 10            | 8      | 10                     |
| 1908..... | 69.9        | 99      | 35     | 2.32          | 4.63     | 0.77  | 16          | 12            | 2      | 4                      |
| 1909..... | 70.0        | 99      | 36     | 3.26          | 5.70     | 1.71  | 9           | 10            | 11     | 12                     |
| 1910..... | 66.9        | 95      | 34     | 5.17          | 8.01     | 2.66  | 9           | 10            | 11     | 13                     |
| 1911..... | 68.9        | 97      | 40     | 5.36          | 10.11    | 2.84  | 9           | 12            | 9      | 14                     |
| 1912..... | 68.0        | 98      | 33     | 1.94          | 3.61     | 0.91  | 9           | 12            | 9      | 8                      |
| 1913..... | 69.1        | 98      | 31     | 1.80          | 3.76     | 0.68  | 19          | 8             | 3      | 5                      |
| 1914..... | 68.5        | 98      | 35     | 2.66          | 4.85     | 1.09  | 16          | 9             | 6      | 7                      |
| 1915..... | 67.0        | 95      | 37     | 3.12          | 6.51     | 1.40  | 13          | 10            | 7      | 11                     |
| 1916..... | 64.7        | 87      | 36     | 4.20          | 5.99     | 2.22  | 10          | 9             | 11     | 13                     |
| 1917..... | 68.9        | 95      | 40     | 4.27          | 7.14     | 2.80  | 13          | 10            | 7      | 12                     |
| 1918..... | 66.3        | 96      | 32     | 3.43          | 6.21     | 1.35  | 15          | 9             | 6      | 8                      |
| 1919..... | 69.5        | 99      | 38     | 3.16          | 3.58     | 0.37  | 16          | 7             | 7      | 8                      |
| 1920..... | 68.4        | 98      | 38     | 6.18          | 11.26    | 3.12  | 13          | 9             | 8      | 12                     |
| 1921..... | 70.4        | 100     | 38     | 3.23          | 5.64     | 1.40  | 18          | 7             | 5      | 8                      |
| 1922..... | 71.1        | 95      | 39     | 6.31          | 11.50    | 2.97  | 12          | 9             | 9      | 15                     |
| 1923..... | 72.5        | 106     | 37     | 2.08          | 5.44     | 0.72  | 18          | 8             | 4      | 7                      |
| 1924..... | 66.8        | 95      | 30     | 4.20          | 7.32     | 1.72  | 11          | 11            | 8      | 13                     |
| 1925..... | 73.6        | 103     | 36     | 3.10          | 6.16     | 0.72  | 17          | 9             | 4      | 9                      |
| 1926..... | 64.9        | 97      | 31     | 2.60          | 4.73     | 1.29  | 12          | 9             | 9      | 11                     |
| 1927..... | 65.4        | 97      | 31     | 3.16          | 5.24     | 1.46  | 15          | 9             | 6      | 10                     |



## Climatological Data for June, 1927

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                                                                                                                            |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear |                              |           | Pt. cloudy | Cloudy                                                                                                                     |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                            |
| Belvidere.....                       | Warren.....     | 289             | 36                      | 66.0                         | -2.8                      | 97      | 29   | 40     | 2†   | 41                       | 5.24  | +1.24                     | 1.70                 | 0                         | 9                            | 22    | 4                            | 4         | .....      | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                          |
| Charlotteburg¶.....                  | Passaic.....    | 719             | 35                      | 61.9                         | -2.9                      | 90      | 29   | 34     | 4    | 41                       | 4.63  | +0.51                     | 1.18                 | 0                         | 11                           | 4     | 9                            | 17        | .....      |                                                                                                                            |
| Culvers Lake¶.....                   | Sussex.....     | 848             | 26                      | 63.8 <sup>b</sup>            | -2.9                      | 90      | 29   | 42     | 6    | .....                    | 3.17  | -1.44                     | 1.05                 | 0                         | 12                           | 20    | 5                            | 5         | n.         |                                                                                                                            |
| Dover.....                           | Morris.....     | 600             | 43                      | 63.8 <sup>b</sup>            | -2.9                      | 90      | 29   | 40     | 4    | 36                       | 3.71  | -0.32                     | 0.98                 | 0                         | 10                           | 7     | 15                           | 8         | .....      |                                                                                                                            |
| Layton.....                          | Sussex.....     | 480             | 26                      | 61.8                         | -3.7                      | 92      | 29   | 34     | 2    | 40                       | 3.78  | -0.01                     | 1.34                 | 0                         | 11                           | 19    | 5                            | 6         | sw.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                      |
| Newton.....                          | Sussex.....     | 769             | 43                      | 64.1                         | -3.9                      | 91      | 29   | 42     | 1    | 34                       | 3.28  | -0.70                     | 0.74                 | 0                         | 10                           | 14    | 9                            | 7         | .....      |                                                                                                                            |
| Phillipsburg.....                    | Warren.....     | 363             | 44                      | 65.2                         | -4.1                      | 97      | 10   | 41     | 2    | 39                       | 2.64  | -0.99                     | 0.98                 | 0                         | 9                            | 18    | 6                            | 6         | .....      |                                                                                                                            |
| Sussex.....                          | Sussex.....     | 442             | 32                      | 62.8 <sup>b</sup>            | -4.0                      | 92      | 29   | 36     | 2    | 39                       | 2.95  | -0.73                     | 0.62                 | 0                         | 9                            | 13    | 7                            | 10        | n.         |                                                                                                                            |
| Means and extremes.....              |                 |                 |                         | 63.7                         | -3.5                      | 97      | 10†  | 34     | 2†   | 41                       | 3.68  | -0.30                     | 1.70                 | 0                         | 10                           | 15    | 7                            | 8         | n.         |                                                                                                                            |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                            |
| Bergen Point¶.....                   | Hudson.....     | 37              | 30                      | 64.9 <sup>c</sup>            | -3.5                      | 93      | 10   | 49     | 2    | 31                       | 3.32  | -0.46                     | 1.13                 | 0                         | 9                            | 5     | 22                           | 3         | nw.        | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                           |
| Boonton.....                         | Morris.....     | 400             | 57                      | 63.0                         | -4.6                      | 90      | 29   | 40     | 4    | 36                       | 3.33  | -0.34                     | 0.88                 | 0                         | 11                           | 19    | 0                            | 11        | nw.        |                                                                                                                            |
| Chatham.....                         | Morris.....     | 185             | 23                      | 63.0                         | -4.6                      | 90      | 29   | 40     | 4    | 36                       | 3.66  | -0.40                     | 0.85                 | 0                         | 10                           | 22    | 2                            | 6         | .....      |                                                                                                                            |
| Elizabeth.....                       | Union.....      | 45              | 48                      | 66.4                         | -4.1                      | 92      | 10   | 44     | 16   | 33                       | 3.55  | -0.07                     | 0.85                 | 0                         | 10                           | 15    | 10                           | 5         | w.         |                                                                                                                            |
| Flemington.....                      | Hunterdon.....  | 140             | 41                      | 66.2                         | -3.0                      | 94      | 29   | 41     | 2    | 38                       | 3.91  | +0.07                     | 1.58                 | 0                         | 9                            | 19    | 7                            | 4         | nw.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                           |
| Highwood¶.....                       | Bergen.....     | 90              | 39                      | 64.4                         | -3.2                      | 90      | 10   | 40     | 2    | 37                       | 3.27  | -0.42                     | 0.94                 | 0                         | 8                            | 13    | 10                           | 7         | nw.        |                                                                                                                            |
| Jersey City.....                     | Hudson.....     | 10              | 29                      | 67.2                         | -3.7                      | 92      | 10   | 49     | 6    | 27                       | 3.31  | -0.19                     | 0.89                 | 0                         | 10                           | 11    | 13                           | 6         | n.         |                                                                                                                            |
| Lambertville.....                    | Hunterdon.....  | 370             | 40                      | 65.2                         | -4.5                      | 92      | 29   | 44     | 2    | 34                       | 3.70  | -0.21                     | 1.08                 | 0                         | 10                           | 16    | 9                            | 5         | nw.        |                                                                                                                            |
| Little Falls.....                    | Passaic.....    | 180             | 24                      | 65.4                         | -2.6                      | 91      | 10†  | 42     | 4†   | 35                       | 4.05  | +0.53                     | 0.97                 | 0                         | 11                           | 14    | 7                            | 9         | nw.        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.       |
| New Brunswick.....                   | Middlesex.....  | 110             | 74                      | 66.1                         | -3.0                      | 90      | 29   | 44     | 2    | 31                       | 2.80  | -0.96                     | 0.67                 | 0                         | 12                           | 19    | 6                            | 5         | n.         |                                                                                                                            |
| New Milford¶.....                    | Bergen.....     | 9               | 9                       | 66.1                         | -3.0                      | 90      | 29   | 44     | 2    | 31                       | 2.80  | -0.96                     | 0.67                 | 0                         | 12                           | 19    | 6                            | 5         | n.         |                                                                                                                            |
| Paterson.....                        | Passaic.....    | 80              | 56                      | 67.6                         | -2.2                      | 92      | 10   | 48     | 2†   | 29                       | 3.49  | -0.63                     | 1.12                 | 0                         | 9                            | 21    | 3                            | 6         | nw.        |                                                                                                                            |
| Plainfield.....                      | Union.....      | 120             | 39                      | 65.1                         | -3.5                      | 92      | 10   | 43     | 4    | 35                       | 3.45  | -0.29                     | 0.70                 | 0                         | 11                           | 10    | 15                           | 5         | nw.        |                                                                                                                            |
| Ridgefield.....                      | Bergen.....     | 80              | 10                      | 65.2                         | .....                     | 90      | 10   | 44     | 2†   | 31                       | 3.54  | .....                     | 0.98                 | 0                         | 10                           | 14    | 11                           | 5         | nw.        | George P. Kirsten.<br>H. B. TenEyck.                                                                                       |
| Somerville.....                      | Somerset.....   | 70              | 44                      | 66.0                         | -3.1                      | 92      | 29   | 37     | 2    | 40                       | 2.96  | -0.78                     | 0.76                 | 0                         | 8                            | 18    | 7                            | 5         | w.         |                                                                                                                            |
| South Orange.....                    | Essex.....      | 200             | 57                      | 65.2                         | .....                     | 90      | 10   | 44     | 2†   | 31                       | 3.54  | .....                     | 0.98                 | 0                         | 10                           | 14    | 11                           | 5         | nw.        |                                                                                                                            |
| Verona.....                          | Essex.....      | 490             | 1                       | 64.0                         | .....                     | 86      | 10   | 45     | 16   | 26                       | 4.23  | .....                     | 1.63                 | 0                         | 11                           | 7     | 12                           | 11        | nw.        |                                                                                                                            |
| Woodcliff Lake¶.....                 | Bergen.....     | 100             | 9                       | 65.2                         | .....                     | 90      | 10   | 44     | 2†   | 31                       | 3.13  | .....                     | 0.75                 | 0                         | 9                            | ..... | .....                        | .....     | nw.        | Luther Davis.<br>Hackensack Water Co.                                                                                      |
| New York, N. Y.....                  |                 | 365             | 57                      | 65.3                         | -3.0                      | 86      | 10   | 49     | 6    | 23                       | 3.13  | -0.13                     | 0.84                 | 0                         | 10                           | 6     | 16                           | 8         | nw.        | U. S. Weather Bureau.                                                                                                      |
| Means and extremes.....              |                 |                 |                         | 65.5                         | -3.4                      | 94      | 29   | 37     | 2    | 40                       | 3.45  | -0.32                     | 1.63                 | 0                         | 10                           | 15    | 9                            | 6         | nw.        |                                                                                                                            |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                            |
| Belleplain.....                      | Cape May.....   | 30              | 33                      | 65.2 <sup>c</sup>            | -3.5                      | 92      | 29   | 31     | 2    | .....                    | 2.30  | -0.92                     | .....                | 0                         | 9                            | ..... | .....                        | .....     | .....      | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.                                                          |
| Bridgeton.....                       | Cumberland..... | 90              | 46                      | 66.5                         | -5.6                      | 94      | 29   | 38     | 2    | 35                       | 2.28  | -1.45                     | 0.89                 | 0                         | 6                            | 9     | 11                           | 10        | sw.        |                                                                                                                            |
| Burlington.....                      | Burlington..... | 12              | 41                      | 68.0                         | -1.7                      | 93      | 29   | 41     | 2    | 33                       | 2.11  | -1.77                     | 0.53                 | 0                         | 9                            | 12    | 11                           | 7         | sw.        |                                                                                                                            |
| Clayton.....                         | Gloucester..... | 130             | 30                      | 65.2                         | .....                     | 92      | 29   | 31     | 2    | .....                    | 2.30  | -0.92                     | .....                | 0                         | 9                            | ..... | .....                        | .....     | .....      |                                                                                                                            |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | 65.8 <sup>b</sup>            | -3.2                      | 93      | 10   | 36     | 2    | 38                       | 3.93  | +0.33                     | 1.20                 | 0                         | 11                           | 20    | 6                            | 4         | w.         | Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                                                |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | 65.8 <sup>b</sup>            | -3.2                      | 93      | 10   | 36     | 2    | 38                       | 3.93  | +0.33                     | 1.20                 | 0                         | 11                           | 20    | 6                            | 4         | w.         |                                                                                                                            |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | 65.6 <sup>b</sup>            | -4.7                      | 91      | 29   | 37     | 2    | 38                       | 3.09  | -0.68                     | 1.19                 | 0                         | 10                           | 20    | 7                            | 3         | nw.        |                                                                                                                            |
| Indian Mills¶.....                   | Burlington..... | 76              | 38                      | 65.9                         | -3.9                      | 92      | 10†  | 40     | 2†   | 38                       | 2.89  | -1.24                     | 0.76                 | 0                         | 8                            | 11    | 13                           | 6         | sw.        |                                                                                                                            |
| Lakewood.....                        | Ocean.....      | 54              | 23                      | 65.6                         | -1.9                      | 91      | 10†  | 38     | 2    | 36                       | 3.01  | -0.70                     | 0.90                 | 0                         | 10                           | 14    | 11                           | 5         | nw.        | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                        |
| Moorestown.....                      | Burlington..... | 75              | 64                      | 66.2                         | -3.8                      | 90      | 10†  | 43     | 2    | 31                       | 3.03  | -0.69                     | 0.85                 | 0                         | 6                            | 17    | 7                            | 6         | w.         |                                                                                                                            |
| Northfield¶.....                     | Atlantic.....   | 25              | 20                      | 64.0                         | .....                     | 93      | 29   | 35     | 2    | 35                       | 2.69  | -0.96                     | 1.06                 | 0                         | 7                            | ..... | .....                        | .....     | .....      |                                                                                                                            |
| Pleasantville¶.....                  | Atlantic.....   | 26              | 29                      | 64.0                         | .....                     | 93      | 29   | 35     | 2    | 35                       | 2.66  | -1.27                     | 1.18                 | 0                         | 8                            | 18    | 6                            | 6         | ne.        |                                                                                                                            |
| Riverton.....                        | Burlington..... | 1               | 65.6                    | .....                        | .....                     | 92      | 29   | 42     | 2    | 32                       | 3.06  | .....                     | 0.79                 | 0                         | 9                            | 12    | 9                            | 9         | n.         | Japanese Beetle Laboratory<br>U. S. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Runyon¶.....                         | Middlesex.....  | 18              | 3                       | 64.0                         | .....                     | 92      | 29   | 32     | 2    | 44                       | 2.49  | .....                     | 0.66                 | 0                         | 10                           | 19    | 9                            | 2         | w.         |                                                                                                                            |
| Trenton.....                         | Mercer.....     | 190             | 55                      | 66.4                         | -3.1                      | 91      | 29   | 47     | 2    | 28                       | 3.30  | -0.19                     | 1.21                 | 0                         | 11                           | 10    | 12                           | 8         | sw.        |                                                                                                                            |
| Tuckerton.....                       | Ocean.....      | 23              | 34                      | 66.8 <sup>a</sup>            | -1.6                      | 94      | 29   | 39     | 2    | 41                       | 1.46  | -2.37                     | 0.60                 | 0                         | 9                            | 21    | 7                            | 2         | se.        |                                                                                                                            |
| Vineland.....                        | Cumberland..... | 109             | 58                      | 68.4                         | -2.8                      | 95      | 29   | 41     | 2    | 36                       | 1.63  | -1.94                     | 0.68                 | 0                         | 7                            | 20    | 5                            | 5         | sw.        |                                                                                                                            |
| Philadelphia, Pa.....                |                 | 117             | 66                      | 68.6                         | -2.8                      | 94      | 29   | 51     | 6    | 29                       | 3.48  | +0.18                     | 1.03                 | 0                         | 8                            | 7     | 12                           | 11        | sw.        | U. S. Weather Bureau.                                                                                                      |
| Means and extremes.....              |                 |                 |                         | 66.0                         | -3.3                      | 95      | 29   | 31     | 2    | 44                       | 2.66  | -1.07                     | 1.21                 | 0                         | 9                            | 15    | 9                            | 6         | sw.        |                                                                                                                            |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                            |
| Asbury Park.....                     | Monmouth.....   | 22              | 38                      | 65.6                         | -2.2                      | 85      | 10   | 51     | 6    | 23                       | 2.14  | -1.82                     | 0.69                 | 0                         | 11                           | 10    | 12                           | 8         | sw.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                             |
| Atlantic City.....                   | Atlantic.....   | 16              | 54                      | 65.0                         | -1.6                      | 92      | 29   | 48     | 2    | 26                       | 2.24  | -0.79                     | 0.89                 | 0                         | 7                            | 10    | 14                           | 6         | se.        |                                                                                                                            |
| Cape May City.....                   | Cape May.....   | 17              | 43                      | 66.0                         | -1.7                      | 91      | 29   | 47     | 2    | 25                       | 3.22  | +0.18                     | 1.10                 | 0                         | 11                           | ..... | .....                        | .....     | sw.        |                                                                                                                            |
| Sandy Hook.....                      | Monmouth.....   | 22              | 29                      | 65.6                         | -2.2                      | 85      | 10   | 51     | 6    | 23                       | 2.14  | -1.82                     | 0.69                 | 0                         | 11                           | 10    | 12                           | 8         | sw.        |                                                                                                                            |
| Means and extremes.....              |                 |                 |                         | 65.5                         | -1.8                      | 92      | 29   | 45     | 2    | 26                       | 2.80  | -0.62                     | 1.10                 | 0                         | 9                            | 14    | 10                           | 6         | sw.        |                                                                                                                            |
| For the State.....                   |                 |                 |                         | 65.4                         | -3.2                      | 97      | 10†  | 31     | 2    | 44                       | 3.16  | -0.60                     | 1.70                 | 0                         | 9                            | 15    | 9                            | 6         | nw         |                                                                                                                            |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

¶ Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for June, 1927

| Stations                                   | Drainage Basin  | Day of month |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     | Total |      |
|--------------------------------------------|-----------------|--------------|---|-----|-----|-----|-----|-----|----|---|-----|-----|-----|-----|------|------|----|----|----|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|
|                                            |                 | 1            | 2 | 3   | 4   | 5   | 6   | 7   | 8  | 9 | 10  | 11  | 12  | 13  | 14   | 15   | 16 | 17 | 18 | 19   | 20   | 21  | 22   | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31  |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     |       |      |
| Belvidere.....                             | Delaware.....   |              |   |     | .48 | .21 |     |     |    |   | T.  | .54 | T.  |     | .89  |      |    |    |    | *    | 1.70 |     |      | .50 | .63 |     | .29 |     |     |     |     |     | 5.24  |      |
| Charlotteburg.....                         | Passaic.....    |              |   |     | .17 | .18 |     |     |    |   |     | .43 |     |     | .40  | .08  |    |    |    | .95  | .28  | T.  | .03  | .24 |     | .73 |     |     | .02 | .12 |     |     | 4.63  |      |
| Culvers Lake.....                          | Delaware.....   |              |   |     | .33 | .03 |     |     |    |   |     | .10 | .01 |     | .15  | .02  |    |    |    | 1.05 | .18  |     | .12  |     | .85 |     |     |     |     | .02 | .02 |     | 3.17  |      |
| Dover.....                                 | Passaic.....    |              |   |     | .53 | .14 |     |     |    |   |     | .37 |     |     | .76  |      |    |    |    | .98  | .01  |     | .38  |     | .44 |     |     |     |     | *   | .10 |     | 3.71  |      |
| Layton.....                                | Delaware.....   |              |   |     | .43 | .04 |     |     |    |   | .23 | .25 |     |     | .40  |      |    |    |    | 1.34 | .14  |     | .07  | .11 |     | .76 |     |     | .01 |     |     |     | 3.78  |      |
| Newton.....                                | Delaware.....   |              |   |     | .30 | .13 | .06 |     |    |   |     | .36 |     |     | .56  |      |    |    |    | .74  | .33  |     | .10  | .18 |     | .52 |     |     |     |     | T.  |     | 3.28  |      |
| Phillipsburg.....                          | do.....         |              |   |     | .44 | .22 |     |     |    |   |     | .12 |     |     | .62  |      |    |    |    | .98  | .12  |     | .02  | .08 |     | .04 |     |     |     |     | T.  |     | 2.64  |      |
| Sussex.....                                | Hudson.....     |              |   |     | .13 | .19 |     |     |    |   |     | .33 |     |     | .41  |      |    |    |    | .62  | .36  |     | .02  | .08 |     | .16 |     | .55 |     |     | .20 |     | 2.95  |      |
| <i>The Red Sandstone Plain</i>             |                 |              |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     |       |      |
| Bergen Point**.....                        | Coast.....      |              |   |     | .74 | .16 |     |     |    |   | .09 |     |     |     | .62  |      |    |    |    | 1.13 | T.   |     | .03  | .04 |     | .47 |     |     |     |     | .04 |     | 3.32  |      |
| Boonton   .....                            | Passaic.....    |              |   |     | .41 | .14 |     |     |    |   |     | .33 |     |     | .14  | .47  |    |    |    | .24  | .88  | T.  |      | .18 |     | .48 | .02 |     | T.  | .04 |     |     | 3.33  |      |
| Chatham   .....                            | do.....         | T.           |   |     | .36 | .42 |     |     |    |   |     |     |     |     | .13  | .72  |    |    |    | .37  | .85  |     |      | .03 | .08 |     | .63 |     |     | T.  | .07 |     | 3.66  |      |
| Elizabeth.....                             | Coast.....      |              |   |     | .16 | .85 |     |     |    |   |     | .22 |     |     | .68  |      |    |    |    | .76  | .27  |     | T.   | .03 | .10 |     | .39 |     |     | T.  |     | .09 |       | 3.55 |
| Flemington.....                            | Raritan.....    |              |   |     | .34 | .79 |     | T.  |    |   |     | .02 |     |     | .60  | .12  |    |    |    | 1.58 | .28  |     | T.   | .08 | .05 |     | .05 |     |     |     |     |     | 3.91  |      |
| Highwood.....                              | Hackensack..... |              |   |     | .48 | .17 |     |     |    |   |     | .22 | T.  |     | .52  |      |    |    |    | .94  | T.   |     | T.   | .15 |     | .66 |     |     | T.  |     | .13 |     | 3.27  |      |
| Jersey City.....                           | Coast.....      |              |   |     | .72 | .12 |     |     |    |   |     | .02 |     |     | .70  |      |    |    |    | .89  | .04  |     | .01  | .14 |     | .59 |     |     | T.  | T.  | .08 |     | 3.31  |      |
| Lambertville.....                          | Delaware.....   | .04          |   |     | .70 | .25 |     | T.  |    |   |     | .20 |     |     | .74  |      |    |    |    | 1.08 | .50  | T.  | .10  | .04 |     | .05 |     |     |     | T.  |     |     | 3.70  |      |
| Little Falls.                              | Passaic.....    |              |   |     | .37 | .15 |     |     |    |   |     | .55 |     |     | .29  | .35  |    |    |    | .97  | .59  |     |      | T.  | .14 |     | .51 |     |     | .01 | .12 |     | 4.05  |      |
| New Brunswick.....                         | Raritan.....    |              |   |     | .30 | .55 |     |     |    |   |     | .04 |     |     | .51  | .06  |    |    |    | .67  | .31  |     | .01  | .05 | .04 |     | .04 |     |     |     | T.  | .22 |       | 2.80 |
| New Milford.**.....                        | Hackensack..... |              |   |     | .37 | .25 |     |     |    |   |     | .27 |     |     | .43  |      |    |    |    | .67  |      |     |      | .05 |     | .72 |     |     |     |     |     | .14 |       | 2.90 |
| Paterson.....                              | Passaic.....    |              |   |     | .16 | .50 |     |     |    |   |     | .32 | T.  |     | .55  | .02  |    |    |    | 1.10 | .02  |     | T.   |     | T.  |     | .63 |     | .01 |     | .18 |     | 3.49  |      |
| Plainfield.....                            | Raritan.....    |              |   |     | .68 | .48 |     |     |    |   |     | .18 |     |     | .70  |      |    |    |    | .62  | .18  |     | .01  | .15 |     | .35 |     |     | T.  | .05 | .05 |     | 3.45  |      |
| Ridgefield.....                            | Hackensack..... |              |   |     | .48 | .22 |     |     |    |   |     | .05 |     |     | .63  |      |    |    |    | .98  |      |     | .07  | .11 |     | .82 |     |     | T.  |     | .18 |     | 3.54  |      |
| Somerville.....                            | Raritan.....    |              |   |     | .76 | .24 |     |     |    |   |     |     |     |     | .57  |      |    |    |    | .63  | .24  |     |      | .04 |     | .24 |     |     |     | T.  | .24 |     | 2.96  |      |
| South Orange.....                          | Rahway.....     |              |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     |       |      |
| Verona**.....                              | Passaic.....    |              |   |     | .50 | .16 |     |     |    |   |     | .13 |     | T.  |      | .75  |    |    |    | 1.63 | .09  |     |      | .22 |     | .01 | .55 |     |     | T.  | .01 | .18 |       | 4.23 |
| Woodcliff Lake**.....                      | Hackensack..... |              |   |     | .49 | .34 |     |     |    |   |     | .20 |     |     | .35  |      |    |    |    | .75  |      |     |      | .15 |     | .65 |     |     |     |     | .03 | .17 |       | 3.13 |
| New York, N. Y***.....                     | Coast.....      |              |   |     | .68 | .13 |     |     |    |   |     | .02 |     |     | .65  |      |    |    |    | T.   | .83  | .01 |      | .02 | .12 |     | .59 |     |     | T.  | .08 |     | 3.13  |      |
| <i>The Southern Interior</i>               |                 |              |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     |       |      |
| Belleplain.....                            | Tuckahoe.....   |              |   | .04 | .22 | .01 |     |     |    |   |     |     |     | .09 | *    | .96  |    |    |    | *    | .95  |     |      | .03 |     |     |     | T.  |     |     |     |     | 2.30  |      |
| Bridgeton.....                             | Coast.....      |              |   |     | .26 | .07 |     |     |    |   |     |     |     | .06 | .83  |      |    |    |    | .80  | .26  |     |      |     |     |     |     |     |     |     |     |     | 2.28  |      |
| Burlington.....                            | Delaware.....   |              |   |     | .16 | .33 |     |     |    |   |     |     |     |     | .51  | .14  |    |    |    | .53  | .28  |     | T.   | .13 | .01 |     | .02 |     |     |     | T.  |     | 2.11  |      |
| Clayton.....                               | Delaware.....   |              |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     |       |      |
| Hammononton.....                           | Mullica.....    |              |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     |       |      |
| Hightstown.....                            | Raritan.....    |              |   |     | .22 | .58 |     |     |    |   |     | .18 |     |     | .68  | .05  |    |    |    | 1.20 | .55  |     |      | .09 | .01 |     | .05 |     |     |     | .32 |     | 3.93  |      |
| Imlaystown.....                            | Delaware.....   | .03          |   |     | .52 |     |     |     |    |   |     | .06 |     |     | .64  | .13  |    |    |    | 1.19 | .24  |     |      | .08 |     | .06 |     |     |     |     | .14 |     | 3.09  |      |
| Indian Mills.....                          | Mullica.....    |              |   |     | .33 | .66 |     |     |    |   |     |     |     |     | .76  |      |    |    |    | .56  | .20  |     | .18  | .18 |     | .02 |     |     |     | T.  |     |     | 2.89  |      |
| Lakewood.....                              | Metedeconk..... |              |   |     | .15 | .55 |     |     |    |   |     | .02 |     |     | .77  | .09  |    |    |    | .90  |      |     | .06  | .05 |     | .15 |     |     |     | T.  | .27 |     | 3.01  |      |
| Moorestown.....                            | Delaware.....   |              |   |     | .43 | .10 |     |     |    |   |     |     |     |     | .83  |      |    |    |    | .53  | .29  |     |      | .85 |     | T.  |     |     |     |     |     |     | 3.03  |      |
| Northfield.....                            | Coast.....      |              |   | T.  | .26 |     |     |     |    |   |     |     |     |     | .96  | .04  |    |    |    | 1.06 | .28  |     |      |     |     | .07 |     |     |     |     | .02 |     | 2.60  |      |
| Pleasantville   .....                      | Coast.....      |              |   | .01 | .24 | .10 |     |     |    |   |     |     |     |     | T.   | 1.18 |    |    |    | .83  | .24  | T.  |      |     |     | .04 |     |     |     |     | .02 |     | 2.66  |      |
| Riverton   .....                           | Delaware.....   | T.           |   |     | .56 | .21 |     |     |    |   |     |     |     |     | .10  | .70  |    |    |    | .24  | .41  | T.  |      | .79 | .02 |     | .03 |     |     |     |     |     | 3.06  |      |
| Runyon.....                                | Coast.....      |              |   |     | .28 | .36 |     |     |    |   |     | .06 |     |     | .66  | .04  |    |    |    | .57  | .22  |     |      | .08 |     |     |     |     |     |     | .22 |     | 2.49  |      |
| Trenton***.....                            | Delaware.....   |              |   |     | .58 | .27 |     |     |    |   | .07 | .28 |     |     | .68  |      |    |    |    | 1.13 | .10  |     | .07  | .04 |     | .03 |     |     |     | .05 |     | T.  |       | 3.30 |
| Tuckerton.....                             | Coast.....      |              |   |     | .21 | .03 | .10 |     |    |   |     |     |     |     | .60  | .03  |    |    |    | .09  | .30  |     |      |     |     | *   |     |     |     |     | .10 |     | 1.46  |      |
| Vineland.....                              | Maurice.....    |              |   |     | .23 | .05 |     |     |    |   |     |     |     |     | .68  | .06  |    |    |    | .51  |      |     | .04  |     |     | .03 |     |     |     |     |     |     | 1.63  |      |
| Phila., Pa***.....                         | Delaware.....   |              |   |     | .41 | .20 |     |     |    |   |     |     |     |     | .87  |      |    |    |    | .66  | .30  |     | 1.00 | .03 |     | .01 |     |     |     |     | T.  |     | 3.48  |      |
| <i>The Sea Coast</i>                       |                 |              |   |     |     |     |     |     |    |   |     |     |     |     |      |      |    |    |    |      |      |     |      |     |     |     |     |     |     |     |     |     |       |      |
| Asbury Park.....                           | Coast.....      |              |   |     | .45 | .30 |     |     |    |   |     | .10 |     |     | .85  |      |    |    |    | 1.08 | .30  |     | T.   | T.  |     | .20 |     |     |     | T.  | .30 |     | 3.58  |      |
| Atlantic City***.....                      | do.....         |              |   | .01 | .33 | T.  |     |     |    |   |     |     |     |     | .89  |      |    |    |    | .72  | .18  |     |      |     |     | .08 |     |     |     |     | .03 |     | 2.24  |      |
| Cape May City.....                         | do.....         | .04          |   | .21 | .04 | .18 |     | .02 | T. |   |     |     |     |     | 1.10 | .02  |    |    |    | 1.10 | .46  |     | T.   |     |     | .03 |     |     |     |     | T.  |     | 3.22  |      |
| Sandy Hook***.....                         | do.....         |              |   |     | .37 | .12 |     |     | T. |   |     |     |     |     | .55  | .01  |    |    |    | T.   | .68  | .01 |      | .04 | .03 |     | .15 |     |     | T.  |     | .09 |       | 2.14 |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Late | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 30.00        | 30.30   | 28   | 29.67  | 11   | 16.1            | 42             | ne.       | 14   | 72                                     | 65                                        | 75                                      | 66            |
| New York, N. Y.....   | 30.00        | 30.27   | 28   | 29.67  | 10   | 15.1            | 62             | nw.       | 5    | 68                                     | 53                                        | 62                                      | 69            |
| Philadelphia, Pa..... | 30.01        | 30.31   | 28   | 29.69  | 11   | 8.4             | 28             | n.        | 26   | 76                                     | 63                                        | 69                                      | 66            |
| Ridgefield.....       | 30.00        | 30.26   | 28   | 29.66  | 10   |                 |                |           |      |                                        |                                           |                                         |               |
| Riverton.....         |              | 30.25   | 28   |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Sandy Hook.....       | 29.99        | 30.28   | 28   | 29.64  | 10   | 12.8            | 50             | nw.       | 5    | 72                                     | 52                                        | 66                                      |               |
| Trenton.....          | 30.00        | 30.28   | 28   | 29.64  | 10   | 10.1            | 42             | w.        | 5    | 74                                     | 56                                        | 73                                      | 68            |
| Verona.....           | 30.00        | 30.27   | 18   | 29.62  | 10   | 5.3             | 29             | w.        | 23   | 71                                     | 55                                        | 68                                      | 66            |



## Daily Temperatures for June, 1927

| Stations                                    | 1       | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31                | Mean              |                   |
|---------------------------------------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------------|-------------------|-------------------|
| <i>The Highlands and Kittatinny Valley.</i> |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Belvidere.....                              | Maximum | 71 | 78 | 79 | 68 | 76 | 78 | 75 | 82 | 87 | 92 | 89 | 81 | 80 | 68 | 72 | 77 | 79 | 76 | 67 | 76 | 86 | 81 | 89 | 82 | 81 | 77 | 81 | 82 | 97 | 89                | 79.9              |                   |
|                                             | Minimum | 50 | 40 | 46 | 47 | 54 | 44 | 50 | 48 | 53 | 54 | 63 | 53 | 55 | 50 | 45 | 40 | 45 | 48 | 55 | 56 | 51 | 58 | 65 | 59 | 57 | 64 | 48 | 48 | 56 | 60                | 52.1              |                   |
| Charlotteburg.....                          | Maximum | 66 | 69 | 72 | 71 | 76 | 71 | 71 | 79 | 83 | 87 | 85 | 75 | 80 | 73 | 67 | 74 | 74 | 72 | 69 | 69 | 83 | 80 | 86 | 80 | 78 | 77 | 76 | 80 | 90 | 84                | 76.6              |                   |
|                                             | Minimum | 48 | 43 | 38 | 34 | 48 | 42 | 40 | 39 | 50 | 52 | 60 | 60 | 45 | 49 | 44 | 41 | 36 | 35 | 51 | 55 | 45 | 47 | 65 | 54 | 44 | 60 | 44 | 44 | 49 | 54                | 47.2              |                   |
| Dover.....                                  | Maximum | 69 | 71 | 63 | 63 | 77 | 74 | 72 | 80 | 88 | 88 | 84 | 79 | 78 | 66 | 70 | 76 | 71 | 70 | 63 | 70 | 84 | 77 | 86 | 75 | 73 | 77 | 79 | 82 | 90 | 76                | 76.1 <sup>a</sup> |                   |
|                                             | Minimum | 50 | 44 | 40 | 40 | 52 | 44 | 51 | 49 | 56 | 59 | 60 | 52 | 54 | 46 | 40 | 44 | 43 | 44 | 56 | 56 | 52 | 54 | 59 | 51 | 59 | 48 | 61 | 54 | 56 | 76                | 76.1 <sup>b</sup> |                   |
| Layton.....                                 | Maximum | 62 | 62 | 74 | 62 | 78 | 70 | 70 | 80 | 85 | 87 | 81 | 77 | 73 | 63 | 68 | 73 | 74 | 72 | 60 | 75 | 81 | 78 | 85 | 80 | 73 | 75 | 77 | 81 | 92 | 75                | 74.8              |                   |
|                                             | Minimum | 48 | 34 | 42 | 41 | 51 | 42 | 42 | 45 | 49 | 57 | 60 | 43 | 50 | 51 | 45 | 35 | 38 | 42 | 55 | 56 | 49 | 53 | 63 | 67 | 50 | 60 | 48 | 43 | 52 | 60                | 48.9              |                   |
| Newton.....                                 | Maximum | 73 | 70 | 78 | 60 | 76 | 70 | 72 | 78 | 83 | 87 | 82 | 81 | 76 | 64 | 68 | 73 | 74 | 73 | 65 | 71 | 87 | 84 | 77 | 79 | 79 | 76 | 76 | 81 | 91 | 78                | 75.5              |                   |
|                                             | Minimum | 42 | 45 | 48 | 45 | 57 | 48 | 43 | 47 | 58 | 62 | 65 | 60 | 53 | 50 | 46 | 43 | 48 | 48 | 54 | 55 | 52 | 58 | 65 | 58 | 54 | 63 | 49 | 52 | 57 | 57                | 52.7              |                   |
| Phillipsburg.....                           | Maximum | 74 | 72 | 59 | 78 | 79 | 70 | 85 | 91 | 97 | 88 | 90 | 75 | 65 | 69 | 67 | 70 | 68 | 61 | 75 | 81 | 85 | 92 | 82 | 85 | 73 | 76 | 79 | 89 | 69 | 61                | 57.4              |                   |
|                                             | Minimum | 48 | 41 | 48 | 49 | 56 | 47 | 52 | 48 | 52 | 59 | 54 | 55 | 57 | 51 | 47 | 45 | 47 | 48 | 58 | 58 | 60 | 64 | 61 | 57 | 61 | 52 | 50 | 55 | 61 | 58.1              |                   |                   |
| Sussex.....                                 | Maximum | 69 | 73 | 75 | 62 | 76 | 73 | 74 | 81 | 88 | 89 | 79 | 76 | 63 | 69 | 75 | 76 | 75 | 67 | 72 | 84 | 82 | 86 | 78 | 75 | 76 | 77 | 83 | 92 | 87 | 76.5 <sup>b</sup> |                   |                   |
|                                             | Minimum | 49 | 36 | 43 | 41 | 55 | 43 | 43 | 43 | 43 | 43 | 53 | 49 | 52 | 43 | 37 | 42 | 42 | 50 | 57 | 49 | 53 | 66 | 57 | 51 | 63 | 48 | 47 | 53 | 59 | 49.2 <sup>b</sup> |                   |                   |
| <i>The Red Sandstone Plain.</i>             |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Bergen Point.....                           | Maximum | 69 | 75 | 72 | 68 | 80 | 79 | 75 | 81 | 86 | 93 | 86 | 85 | 69 | 70 | 75 | 75 | 72 | 66 | 75 | 85 | 85 | 85 | 85 | 79 | 84 | 78 | 80 | 90 | 68 | 72.1 <sup>b</sup> |                   |                   |
|                                             | Minimum | 59 | 49 | 53 | 53 | 56 | 56 | 51 | 59 | 63 | 69 | 69 | 69 | 50 | 56 | 51 | 51 | 53 | 60 | 59 | 61 | 69 | 71 | 71 | 55 | 53 | 59 | 63 | 62 | 58 | 57.7 <sup>d</sup> |                   |                   |
| Boonton§§.....                              | Maximum | 69 | 74 | 74 | 65 | 76 | 72 | 71 | 78 | 82 | 86 | 84 | 80 | 75 | 57 | 69 | 74 | 76 | 75 | 65 | 73 | 84 | 78 | 85 | 79 | 70 | 80 | 78 | 83 | 90 | 66                | 75.6              |                   |
|                                             | Minimum | 44 | 43 | 43 | 40 | 52 | 48 | 48 | 47 | 50 | 59 | 61 | 50 | 57 | 51 | 41 | 41 | 43 | 42 | 56 | 56 | 51 | 53 | 60 | 61 | 50 | 58 | 48 | 49 | 54 | 56                | 78.6              |                   |
| Elizabeth.....                              | Maximum | 74 | 74 | 73 | 69 | 83 | 79 | 74 | 81 | 81 | 92 | 81 | 81 | 78 | 70 | 74 | 76 | 75 | 73 | 67 | 74 | 89 | 85 | 89 | 86 | 75 | 81 | 80 | 79 | 90 | 70                | 80.5              |                   |
|                                             | Minimum | 49 | 53 | 50 | 47 | 57 | 48 | 53 | 48 | 57 | 61 | 66 | 55 | 60 | 52 | 47 | 44 | 48 | 49 | 59 | 59 | 56 | 56 | 67 | 60 | 55 | 52 | 52 | 62 | 59 | 58                | 78.2              |                   |
| Flemington.....                             | Maximum | 70 | 77 | 72 | 68 | 78 | 77 | 72 | 83 | 86 | 89 | 85 | 86 | 76 | 71 | 71 | 78 | 74 | 72 | 64 | 73 | 86 | 81 | 87 | 82 | 80 | 79 | 81 | 83 | 94 | 73                | 84.3              |                   |
|                                             | Minimum | 51 | 41 | 49 | 46 | 58 | 47 | 52 | 50 | 56 | 60 | 67 | 55 | 57 | 52 | 47 | 46 | 47 | 47 | 57 | 59 | 55 | 59 | 67 | 62 | 56 | 66 | 49 | 50 | 56 | 60                | 78.2              |                   |
| Highwood.....                               | Maximum | 69 | 77 | 71 | 63 | 78 | 75 | 74 | 82 | 85 | 90 | 85 | 78 | 79 | 68 | 71 | 73 | 73 | 64 | 72 | 82 | 76 | 85 | 77 | 73 | 76 | 78 | 79 | 82 | 65 | 75.8              |                   |                   |
|                                             | Minimum | 50 | 40 | 46 | 46 | 53 | 48 | 53 | 47 | 56 | 63 | 66 | 54 | 56 | 53 | 46 | 42 | 48 | 46 | 58 | 58 | 53 | 58 | 66 | 53 | 55 | 62 | 48 | 50 | 68 | 57                | 53.0              |                   |
| Jersey City.....                            | Maximum | 70 | 72 | 71 | 62 | 80 | 71 | 73 | 80 | 84 | 92 | 86 | 84 | 78 | 68 | 73 | 74 | 74 | 72 | 66 | 72 | 83 | 80 | 88 | 81 | 73 | 82 | 80 | 82 | 87 | 70                | 76.9              |                   |
|                                             | Minimum | 54 | 51 | 56 | 52 | 57 | 49 | 56 | 63 | 60 | 65 | 69 | 60 | 59 | 53 | 52 | 52 | 55 | 57 | 58 | 58 | 61 | 64 | 64 | 60 | 60 | 58 | 55 | 58 | 62 | 57                | 57.5              |                   |
| Lambertville.....                           | Maximum | 68 | 72 | 71 | 64 | 78 | 72 | 73 | 78 | 84 | 88 | 82 | 85 | 75 | 66 | 69 | 74 | 74 | 71 | 64 | 70 | 81 | 80 | 84 | 80 | 80 | 79 | 77 | 80 | 82 | 69                | 76.0              |                   |
|                                             | Minimum | 49 | 44 | 53 | 46 | 53 | 46 | 53 | 51 | 58 | 65 | 69 | 59 | 57 | 51 | 48 | 45 | 48 | 47 | 57 | 57 | 66 | 60 | 64 | 60 | 60 | 58 | 55 | 58 | 62 | 57                | 75.5              |                   |
| Little Falls§§.....                         | Maximum | 71 | 76 | 75 | 72 | 78 | 74 | 74 | 82 | 85 | 91 | 86 | 82 | 84 | 61 | 71 | 76 | 76 | 75 | 68 | 74 | 86 | 82 | 89 | 81 | 73 | 80 | 80 | 81 | 91 | 72                | 78.2              |                   |
|                                             | Minimum | 50 | 43 | 45 | 42 | 51 | 48 | 50 | 47 | 59 | 62 | 66 | 52 | 58 | 52 | 46 | 42 | 46 | 44 | 57 | 58 | 54 | 57 | 66 | 60 | 52 | 61 | 49 | 51 | 57 | 57                | 52.7              |                   |
| New Brunswick.....                          | Maximum | 69 | 73 | 71 | 69 | 79 | 71 | 71 | 79 | 84 | 89 | 84 | 84 | 81 | 74 | 69 | 73 | 71 | 71 | 67 | 72 | 81 | 80 | 85 | 82 | 79 | 81 | 76 | 81 | 90 | 76                | 77.1              |                   |
|                                             | Minimum | 51 | 44 | 53 | 46 | 57 | 47 | 54 | 50 | 58 | 62 | 68 | 57 | 60 | 52 | 48 | 45 | 48 | 49 | 59 | 58 | 57 | 58 | 68 | 62 | 55 | 64 | 51 | 54 | 59 | 58                | 55.1              |                   |
| Paterson.....                               | Maximum | 71 | 77 | 74 | 70 | 75 | 77 | 72 | 82 | 88 | 92 | 86 | 81 | 78 | 71 | 74 | 74 | 74 | 74 | 74 | 75 | 70 | 74 | 83 | 81 | 90 | 81 | 76 | 79 | 83 | 89                | 75                | 78.5 <sup>a</sup> |
|                                             | Minimum | 52 | 48 | 51 | 48 | 58 | 48 | 55 | 54 | 60 | 64 | 68 | 60 | 59 | 53 | 50 | 49 | 53 | 50 | 49 | 53 | 55 | 58 | 59 | 57 | 61 | 70 | 64 | 58 | 62 | 57                | 57.6              |                   |
| Plainfield.....                             | Maximum | 70 | 74 | 71 | 62 | 81 | 71 | 74 | 80 | 85 | 92 | 86 | 84 | 79 | 68 | 73 | 74 | 73 | 73 | 66 | 73 | 83 | 81 | 88 | 82 | 80 | 82 | 80 | 82 | 90 | 72                | 77.6              |                   |
|                                             | Minimum | 50 | 50 | 45 | 43 | 57 | 47 | 42 | 46 | 56 | 57 | 66 | 52 | 57 | 51 | 46 | 45 | 45 | 44 | 58 | 56 | 53 | 54 | 67 | 62 | 50 | 51 | 56 | 56 | 56 | 56                | 56.6              |                   |
| Ridgefield.....                             | Maximum | 70 | 75 | 73 | 63 | 79 | 70 | 73 | 80 | 84 | 90 | 87 | 83 | 78 | 62 | 71 | 74 | 73 | 72 | 65 | 73 | 82 | 76 | 86 | 77 | 71 | 78 | 79 | 83 | 86 | 69                | 76.1              |                   |
|                                             | Minimum | 50 | 44 | 49 | 49 | 53 | 47 | 54 | 50 | 59 | 63 | 63 | 57 | 57 | 53 | 48 | 44 | 49 | 49 | 58 | 57 | 55 | 65 | 65 | 62 | 57 | 57 | 51 | 53 | 62 | 56                | 54.5              |                   |
| Somerville.....                             | Maximum | 71 | 77 | 72 | 70 | 82 | 75 | 75 | 82 | 87 | 90 | 87 | 85 | 81 | 76 | 74 | 77 | 75 | 72 | 67 | 70 | 86 | 83 | 89 | 83 | 82 | 84 | 81 | 84 | 92 | 77                | 79.4              |                   |
|                                             | Minimum | 47 | 37 | 48 | 44 | 59 | 45 | 51 | 46 | 51 | 60 | 63 | 53 | 59 | 52 | 45 | 45 | 43 | 42 | 58 | 59 | 53 | 55 | 66 | 59 | 55 | 65 | 48 | 50 | 66 | 59                | 52.5              |                   |
| South Orange.....                           | Maximum | 66 | 71 | 68 | 60 | 76 | 69 | 70 | 76 | 81 | 86 | 81 | 78 | 73 | 65 | 68 | 70 | 71 | 70 | 64 | 71 | 79 | 77 | 84 | 73 | 69 | 78 | 74 | 79 | 85 | 65                | 73.2              |                   |
|                                             | Minimum | 51 | 46 | 51 | 46 | 58 | 47 | 53 | 50 | 59 | 63 | 67 | 57 | 57 | 51 | 48 | 45 | 49 | 48 | 56 | 57 | 56 | 61 | 66 | 61 | 57 | 62 | 51 | 55 | 59 | 56                | 54.8              |                   |
| New York, N. Y.....                         | Maximum | 67 | 69 | 70 | 62 | 76 | 70 | 70 | 77 | 81 | 86 | 83 | 83 | 74 | 65 | 68 | 71 | 73 | 68 | 65 | 70 | 79 | 76 | 83 | 76 | 67 | 78 | 76 | 79 | 83 | 66                | 73.7              |                   |
|                                             | Minimum | 54 | 51 | 56 | 53 | 56 | 49 | 56 | 54 | 60 | 66 | 70 | 61 | 59 | 53 | 52 | 52 | 56 | 58 | 58 | 61 | 64 | 65 | 61 | 60 | 68 | 55 | 59 | 62 | 57 | 57                | 57.8              |                   |
| <i>The Southern Interior.</i>               |         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |
| Belleplain.....                             | Maximum | 71 | 74 | 69 | 68 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                   |                   |                   |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

CLIMATOLOGICAL DATA.

NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXII. JULY, 1927. No. 7

GENERAL SUMMARY.

Weather conditions were generally typical of the midsummer month, with warmth and rain not varying greatly from normal. There were fewer disastrous sudden squalls attendant upon thunderstorms than usual, and taking all weather elements into consideration it was a more than ordinarily pleasant month. There were two hot periods, from the 12th to the 18th, and from the 26th to the close of the month, but these were more than offset by subnormal warmth at other times, so that the month averaged slightly subnormal in temperature. There have been six cooler Julys, however, than this one, during the past 14 years, so that it would appear that conditions were practically average.

The greater portion of the rainfall occurred in one or two heavy downpours, which were not uniform as to dates throughout the State. These resulted in occasional local flooding of artificial water courses, while other parts of the State were entirely dry. The rain was generously distributed throughout the State, the only deficiencies being slight and unimportant in Burlington, Mercer, and Warren Counties.

The accumulated temperature conditions of the State for the year to date are about normal, while the precipitation is somewhat deficient.

Storm warnings were displayed along the coast on the 2d.

TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 72.7°, which was 1.0° below normal. The highest temperature was 99° at Runyon and Somerville on the 13th, and the lowest, 36°, at Charlotteburg on the 6th. The greatest daily range of temperature was 43° at Belleplain and Runyon on the 5th and 6th, respectively. The highest monthly mean temperature was 75.7° at Vineland, and the lowest, 69.0° at Charlotteburg.

The temperature departure from the normal for the year, 1927, to date, by sections, is: The Highlands, +0.3°; Red Sandstone Plain, -0.2°; Southern Interior, +0.2°; Sea Coast, +0.5°.

PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 6.06 inches, which was 1.27 inches above normal.

The greatest monthly precipitation was 9.34 inches, at Verona, and the least, 2.95 inches at Phillipsburg. The greatest amount of precipitation in any 24 consecutive hours was 4.31 inches at Chatham on the 23d. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 1 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -3.73 inches; Red Sandstone Plain, -4.23 inches; Southern Interior, -6.65 inches; Sea Coast, -5.29 inches.

WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 11 miles per hour, which was 1 mile above normal. The highest velocity, sustained for 5 consecutive

minutes, was 52 miles per hour from the southwest at Sandy Hook on the 18th. High winds also occurred on the 2d, 7th, 16th and 19th.

SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was normal; partly cloudy, 10, or 1 less than normal; cloudy, 8, or 1 more than normal. The per cent of possible sunshine was 64, which was 1 per cent above normal.

MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 1.9 feet, and the highest, 3.6 feet on the 25th. At Trenton the mean stage was 1.0 foot, which was 0.3 foot below normal. The highest stage, 2.4 feet, occurred on the 24th.

The mean atmospheric pressure, reduced to sea level, was 29.99 inches, which was 0.01 inch above normal. The highest reading was 30.29 inches on the 21st at Ridgefield, and the lowest, 29.70 inches on the 7th at Trenton.

Thunderstorms occurred on the 3d, 7th, 13th to 19th, inclusive, 23d, and 27th to the 31st inclusive. Solar halos were observed on the 6th, 7th, 9th and 20th. Dense fog was noted on the 10th, 11th, 12th, 20th and 21st. There were indications of light frost on the 5th at Layton.

Light hail occurred on the 7th in Ocean and Monmouth counties causing scattered slight damage, also over portions of Essex and Bergen counties; also on the 27th at Layton.

COMPARATIVE DATA FOR JULY

| Year | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                       |
|------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|-----------------------|
|      | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | of inch or more prec. |
| 1885 | 75.2        | 100     | 44     | 3.50          | 7.28     | 1.29  | .....       | .....         | .....  | .....                 |
| 1886 | 73.0        | 98      | 48     | 4.91          | 7.95     | 2.98  | .....       | .....         | .....  | .....                 |
| 1887 | 77.1        | 102     | 54     | 7.67          | 15.29    | 1.95  | .....       | .....         | .....  | 11                    |
| 1888 | 71.1        | 95      | 45     | 3.50          | 7.03     | 1.25  | .....       | .....         | .....  | 9                     |
| 1889 | 73.4        | 95      | 48     | 10.19         | 18.68    | 4.66  | .....       | .....         | 13     | 14                    |
| 1890 | 72.5        | 101     | 39     | 5.62          | 7.55     | 3.60  | 12          | 11            | 8      | 9                     |
| 1891 | 70.1        | 95      | 43     | 5.30          | 9.41     | 3.03  | 10          | 11            | 10     | 12                    |
| 1892 | 74.3        | 105     | 44     | 4.03          | 7.96     | 2.38  | 12          | 14            | 5      | 8                     |
| 1893 | 73.9        | 102     | 40     | 2.72          | 4.63     | 1.26  | 14          | 13            | 4      | 8                     |
| 1894 | 75.7        | 106     | 44     | 1.66          | 5.00     | 0.15  | 14          | 12            | 5      | 6                     |
| 1895 | 70.9        | 99      | 41     | 4.26          | 7.73     | 1.53  | 12          | 12            | 7      | 10                    |
| 1896 | 75.0        | 98      | 47     | 5.50          | 13.29    | 2.45  | 13          | 10            | 8      | 13                    |
| 1897 | 74.1        | 102     | 50     | 11.42         | 20.80    | 6.11  | 10          | 11            | 10     | 15                    |
| 1898 | 75.3        | 107     | 38     | 4.96          | 11.72    | 2.23  | 11          | 13            | 7      | 10                    |
| 1899 | 74.7        | 98      | 38     | 5.75          | 9.02     | 3.34  | 13          | 11            | 7      | 11                    |
| 1900 | 75.9        | 104     | 42     | 4.74          | 7.21     | 1.11  | 15          | 12            | 4      | 11                    |
| 1901 | 77.3        | 107     | 45     | 5.87          | 10.92    | 1.89  | 9           | 13            | 9      | 14                    |
| 1902 | 73.0        | 100     | 43     | 4.78          | 9.92     | 1.83  | 10          | 12            | 9      | 13                    |
| 1903 | 73.3        | 100     | 38     | 5.51          | 10.14    | 3.08  | 16          | 10            | 5      | 12                    |
| 1904 | 72.3        | 98      | 42     | 4.87          | 8.06     | 2.41  | 13          | 10            | 8      | 13                    |
| 1905 | 74.4        | 102     | 42     | 4.06          | 8.19     | 1.67  | 12          | 13            | 6      | 12                    |
| 1906 | 72.8        | 94      | 46     | 5.58          | 13.25    | 3.44  | 11          | 14            | 6      | 12                    |
| 1907 | 73.6        | 96      | 40     | 2.62          | 6.42     | 0.95  | 8           | 12            | 11     | 8                     |
| 1908 | 75.6        | 106     | 42     | 4.70          | 8.12     | 1.97  | 12          | 13            | 6      | 9                     |
| 1909 | 71.6        | 99      | 36     | 2.12          | 4.03     | 1.03  | 14          | 14            | 3      | 5                     |
| 1910 | 75.3        | 99      | 42     | 1.36          | 5.33     | 0.22  | 12          | 12            | 7      | 5                     |
| 1911 | 76.0        | 104     | 42     | 3.64          | 6.46     | 2.06  | 12          | 12            | 7      | 8                     |
| 1912 | 73.7        | 100     | 36     | 3.86          | 9.91     | 1.01  | 14          | 10            | 7      | 9                     |
| 1913 | 74.4        | 100     | 41     | 2.52          | 4.72     | 1.50  | 20          | 9             | 2      | 8                     |
| 1914 | 71.5        | 97      | 40     | 6.05          | 8.57     | 1.94  | 9           | 11            | 11     | 15                    |
| 1915 | 72.8        | 98      | 44     | 5.31          | 11.06    | 2.23  | 10          | 13            | 8      | 14                    |
| 1916 | 74.4        | 97      | 45     | 5.40          | 9.01     | 3.15  | 11          | 9             | 11     | 12                    |
| 1917 | 74.2        | 104     | 46     | 4.83          | 7.93     | 2.38  | 10          | 11            | 10     | 12                    |
| 1918 | 72.2        | 104     | 39     | 3.93          | 13.60    | 1.20  | 17          | 9             | 5      | 8                     |
| 1919 | 73.5        | 103     | 43     | 8.39          | 14.14    | 4.45  | 14          | 7             | 10     | 14                    |
| 1920 | 71.7        | 96      | 42     | 5.76          | 16.25    | 1.20  | 17          | 10            | 4      | 11                    |
| 1921 | 76.5        | 99      | 43     | 3.62          | 7.36     | 1.66  | 14          | 9             | 8      | 10                    |
| 1922 | 73.0        | 98      | 44     | 5.79          | 9.26     | 2.29  | 13          | 9             | 9      | 13                    |
| 1923 | 71.9        | 102     | 40     | 3.88          | 6.28     | 0.93  | 15          | 8             | 8      | 11                    |
| 1924 | 71.6        | 98      | 41     | 2.59          | 5.08     | 0.84  | 19          | 8             | 4      | 6                     |
| 1925 | 72.0        | 99      | 39     | 7.37          | 10.09    | 4.03  | 15          | 9             | 7      | 13                    |
| 1926 | 73.0        | 105     | 40     | 5.46          | 8.51     | 1.29  | 16          | 7             | 8      | 12                    |
| 1927 | 72.7        | 99      | 36     | 6.06          | 9.34     | 2.95  | 13          | 10            | 8      | 11                    |



## Climatological Data for July, 1927

| Stations                                    | Counties   | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      |                      | Precipitation, in inches |                           |                      |                           | No. of days                 |       |            |        | Prevailing direction of wind | Observers |
|---------------------------------------------|------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|----------------------|--------------------------|---------------------------|----------------------|---------------------------|-----------------------------|-------|------------|--------|------------------------------|-----------|
|                                             |            |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range | Total                    | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 01 in or more | Clear | Pt. cloudy | Cloudy |                              |           |
| <i>The Highlands and Kittatinny Valley.</i> |            |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                             |       |            |        |                              |           |
| Belvidere.....                              | Warren     | 289             | 36                      | 73.0                         | -0.2                      | 98      | 13   | 45     | 5    | 35                   | 4.19                     | -0.79                     | 1.63                 | 0                         | 10                          | 17    | 5          | 9      | Miss C. S. Hixson.           |           |
| Charlotteburg††                             | Passaic    | 719             | 35                      | 69.0                         | -1.0                      | 94      | 13   | 36     | 6    | 42                   | 5.61                     | +0.78                     | 2.41                 | 0                         | 14                          | 3     | 5          | 23     | Newark Water Dept.           |           |
| Culvers Lake††                              | Sussex     | 848             | 26                      |                              |                           |         |      | 46     | 6    |                      | 6.59                     | +2.02                     | 2.11                 | 0                         | 15                          | 18    | 7          | 6      | Brice E. Riker.              |           |
| Dover.....                                  | Morris     | 600             | 43                      | 70.6                         | -0.8                      | 95      | 13   | 44     | 6    | 32                   | 6.61                     | +1.34                     | 3.09                 | 0                         | 14                          | 0     | 20         | 11     | William C. Harris.           |           |
| Layton.....                                 | Sussex     | 480             | 26                      | 70.4                         | -0.5                      | 96      | 13   | 40     | 5†   | 37                   | 6.56                     | +2.30                     | 1.57                 | 0                         | 13                          | 12    | 8          | 11     | A. M. Depue.                 |           |
| Newton.....                                 | Sussex     | 769             | 43                      | 71.2                         | -1.3                      | 95      | 13   | 47     | 6    | 33                   | 5.18                     | +0.52                     | 2.28                 | 0                         | 14                          | 9     | 16         | 6      | Irving J. Kern.              |           |
| Phillipsburg.....                           | Warren     | 363             | 44                      | 72.4*                        | -1.7                      | 94      | 14   | 47     | 5    |                      | 2.95                     | -1.90                     | 1.61                 | 0                         | 12                          | 18    | 8          | 5      | Town Engineer.               |           |
| Sussex.....                                 | Sussex     | 442             | 32                      | 70.4*                        | -1.7                      | 95      | 13   | 41     | 6    | 38                   | 6.01                     | +1.61                     | 1.88                 | 0                         | 14                          | 12    | 6          | 14     | A. J. W. Mowatt.             |           |
| Means and extremes.....                     |            |                 |                         | 71.0                         | -1.0                      | 98      | 13   | 36     | 6    | 42                   | 5.50                     | +0.74                     | 3.09                 | 0                         | 13                          | 11    | 9          | 11     | sw.                          |           |
| <i>The Red Sandstone Plain.</i>             |            |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                             |       |            |        |                              |           |
| Bergen Point††                              | Hudson     | 37              | 30                      | 74.6*                        | +0.6                      | 97      | 13†  | 53     | 5    | 30                   | 6.85                     | +2.24                     | 3.05                 | 0                         | 10                          | 7     | 20         | 4      | William H. Mitchell          |           |
| Boonton.....                                | Morris     | 400             | 37                      | 70.8                         | -1.7                      | 92      | 13   | 42     | 6    | 35                   | 6.69                     | +1.79                     | 2.94                 | 0                         | 12                          | 22    | 0          | 9      | John Kline.                  |           |
| Chatham.....                                | Morris     | 185             | 23                      |                              |                           |         |      |        |      |                      | 6.94                     | +2.50                     | 4.31                 | 0                         | 11                          | 16    | 9          | 6      | Paul Molitor, Sr.            |           |
| Elizabeth.....                              | Union      | 45              | 48                      | 73.5                         | -1.8                      | 97      | 13   | 47     | 6    | 31                   | 5.44                     | +0.28                     | 1.90                 | 0                         | 11                          | 15    | 7          | 9      | Union County Park Com        |           |
| Flemington.....                             | Hunterdon  | 140             | 41                      | 73.6                         | -1.0                      | 97      | 15   | 49     | 5†   | 33                   | 6.18                     | +0.96                     | 4.14                 | 0                         | 10                          | 19    | 5          | 7      | Hiram E. Deats.              |           |
| Highwood††                                  | Bergen     | 90              | 39                      | 71.0                         | -1.3                      | 92      | 13   | 45     | 5    | 30                   | 7.70                     | +2.75                     | 1.78                 | 0                         | 15                          | 10    | 7          | 14     | Charles J. Bates.            |           |
| Jersey City.....                            | Hudson     | 10              | 29                      | 74.4                         | -1.7                      | 96      | 13   | 55     | 5    | 27                   | 4.56                     | +0.12                     | 1.10                 | 0                         | 11                          | 8     | 17         | 6      | S. K. Pearson, Jr.           |           |
| Lambertville.....                           | Hunterdon  | 370             | 40                      | 73.2                         | -1.1                      | 95      | 13   | 51     | 5    | 28                   | 5.76                     | +0.94                     | 3.79                 | 0                         | 11                          | 13    | 12         | 6      | Wm. J. Lauderdale.           |           |
| Little Falls.....                           | Passaic    | 180             | 24                      | 72.6                         | -1.2                      | 97      | 13   | 44     | 5    | 34                   | 8.87                     | +4.48                     | 3.85                 | 0                         | 14                          | 10    | 7          | 14     | Passaic Consolid. Water Co   |           |
| New Brunswick.....                          | Middlesex  | 110             | 74                      | 73.2                         | -0.8                      | 96      | 13   | 48     | 6    | 30                   | 6.98                     | +1.94                     | 4.07                 | 0                         | 9                           | 14    | 12         | 5      | N. J. Experiment Station.    |           |
| New Milford††                               | Bergen     | 9               | 9                       |                              |                           |         |      |        |      |                      | 7.43                     |                           | 2.49                 | 0                         | 11                          |       |            |        | Haekensack Water Co          |           |
| Paterson.....                               | Passaic    | 80              | 66                      | 73.4                         | -1.0                      | 97      | 13   | 52     | 5    | 27                   | 8.00                     | +2.98                     | 3.60                 | 0                         | 16                          | 15    | 4          | 12     | Marion T. Probert.           |           |
| Plainfield.....                             | Union      | 120             | 39                      | 72.2                         | -1.8                      | 96      | 13   | 45     | 5†   | 33                   | 6.72                     | +0.89                     | 4.26                 | 0                         | 9                           | 7     | 15         | 9      | E. D. Pearson.               |           |
| Ridgefield.....                             | Bergen     | 80              | 10                      | 72.5                         |                           | 93      | 13   | 49     | 5    | 27                   | 8.53                     |                           | 2.55                 | 0                         | 10                          | 5     | 17         | 9      | George P. Kirsten.           |           |
| Somerville.....                             | Somerset   | 70              | 44                      | 73.8                         | -0.3                      | 99      | 13   | 43     | 6    | 37                   | 5.43                     | +0.32                     | 4.14                 | 0                         | 7                           | 20    | 5          | 6      | H. B. TenEyck.               |           |
| South Orange.....                           | Essex      | 200             | 57                      |                              |                           | 98      | 13†  |        |      |                      |                          |                           |                      | 0                         |                             |       |            |        | T. R. Fenner.                |           |
| Verona.....                                 | Essex      | 490             | 1                       | 70.8                         |                           | 91      | 13   | 48     | 5    | 24                   | 9.34                     |                           | 4.21                 | 0                         | 15                          | 7     | 12         | 12     | Luther Davis.                |           |
| Woodcliff Lake††                            | Bergen     | 100             | 9                       |                              |                           |         |      |        |      |                      | 7.10                     |                           | 3.76                 | 0                         | 9                           |       |            |        | Haekensack Water Co.         |           |
| New York, N. Y.....                         |            | 365             | 57                      | 73.0                         | -0.8                      | 91      | 13   | 56     | 5    | 23                   | 5.93                     | +1.39                     | 3.00                 | 0                         | 11                          | 5     | 16         | 10     | U. S. Weather Bureau.        |           |
| Means and extremes.....                     |            |                 |                         | 72.8                         | -1.1                      | 99      | 13   | 42     | 6    | 37                   | 6.97                     | +1.71                     | 4.31                 | 0                         | 11                          | 12    | 10         | 9      | sw.                          |           |
| <i>The Southern Interior.</i>               |            |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                             |       |            |        |                              |           |
| Belleplain.....                             | Cape May   | 30              | 33                      | 71.9*                        | -1.9                      | 94      | 13   | 38     | 5    | 43                   | 5.20                     | +1.09                     | 2.14                 | 0                         | 7                           | 17    | 5          | 9      | Thomas J. Durell.            |           |
| Bridgeton.....                              | Cumberland | 90              | 46                      | 74.5                         | -2.2                      | 93      | 13†  | 46     | 4    | 41                   | 6.14                     | +1.65                     | 2.83                 | 0                         | 6                           | 8     | 11         | 12     | Paul T. Kornman.             |           |
| Burlington.....                             | Burlington | 12              | 41                      | 74.8                         | -0.2                      | 96      | 13   | 52     | 1    | 29                   | 4.26                     | -0.48                     | 2.23                 | 0                         | 9                           | 10    | 11         | 10     | Public Service Power Co.     |           |
| Clayton.....                                | Gloucester | 130             | 30                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                             |       |            |        |                              |           |
| Hammonton.....                              | Atlantic   | 103             | 24                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                             |       |            |        |                              |           |
| Hightstown.....                             | Mercer     | 120             | 33                      | 74.0*                        | -0.4                      | 97      | 13†  | 44     | 5    | 34                   | 3.32                     | -1.67                     | 1.33                 | 0                         | 10                          | 18    | 4          | 9      | Charles Welsh.               |           |
| Imlaystown.....                             | Monmouth   | 115             | 37                      |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                             |       |            |        | Frank M. Lawrence.           |           |
| Indian Mills††                              | Burlington | 76              | 38                      | 73.7                         | -1.0                      | 97      | 15   | 44     | 5†   | 34                   | 4.48                     | -0.18                     | 2.17                 | 0                         | 11                          | 10    | 15         | 6      | James M. Armstrong.          |           |
| Lakewood.....                               | Ocean      | 54              | 23                      | 72.8                         | 0.0                       | 96      | 14†  | 45     | 5    | 33                   | 4.91                     | +0.06                     | 1.33                 | 0                         | 13                          | 17    | 4          | 10     | R. W. Holman.                |           |
| Moorestown.....                             | Burlington | 75              | 64                      | 73.6                         | -1.1                      | 97      | 13   | 50     | 5†   | 30                   | 4.58                     | -0.10                     | 1.28                 | 0                         | 8                           | 14    | 10         | 7      | John B. Warrick.             |           |
| Northfield††                                | Atlantic   | 25              | 20                      |                              |                           |         |      |        |      |                      | 8.56                     | +4.96                     | 4.09                 | 0                         | 10                          |       |            |        | William L. Flick.            |           |
| Pleasantville††                             | Atlantic   | 26              | 29                      | 71.6                         |                           | 93      | 29   | 42     | 5    | 35                   | 6.07                     | +2.09                     | 2.88                 | 0                         | 12                          | 17    | 9          | 5      | N. J. Dept. Conservation.    |           |
| Riverton.....                               | Burlington |                 | 1                       | 73.9                         |                           | 95      | 13†  | 51     | 1†   | 29                   | 4.66                     |                           | 1.17                 | 0                         | 10                          | 8     | 8          | 15     | Japanese Beetle Laboratory   |           |
| Runyon††                                    | Middlesex  | 18              | 3                       | 71.4                         |                           | 99      | 13   | 38     | 4†   | 43                   | 4.33                     |                           | 2.74                 | 0                         | 6                           | 18    | 12         | 1      | N. J. Dept. Conservation.    |           |
| Trenton.....                                | Mercer     | 190             | 55                      | 74.2                         | -0.3                      | 95      | 13   | 53     | 5    | 25                   | 4.40                     | -0.37                     | 2.48                 | 0                         | 9                           | 6     | 15         | 10     | U. S. Weather Bureau.        |           |
| Tuckerton.....                              | Ocean      | 23              | 34                      | 72.7                         | -1.4                      | 92      | 28†  | 45     | 5    | 33                   | 5.92                     | +2.04                     | 1.80                 | 0                         | 8                           | 23    | 7          | 1      | Mrs. George O. Hickman.      |           |
| Vineland.....                               | Cumberland | 109             | 58                      | 75.7                         | -0.7                      | 95      | 13   | 48     | 5    | 35                   | 7.99                     | +3.42                     | 4.26                 | 0                         | 8                           | 21    | 8          | 2      | H. C. Himes                  |           |
| Philadelphia, Pa.....                       |            | 117             | 56                      | 75.8                         | -0.4                      | 93      | 13   | 59     | 5    | 23                   | 4.50                     | +0.17                     | 1.94                 | 0                         | 9                           | 7     | 13         | 11     | U. S. Weather Bureau.        |           |
| Means and extremes.....                     |            |                 |                         | 73.4                         | -0.9                      | 99      | 13   | 38     | 4†   | 43                   | 5.34                     | +1.04                     | 4.26                 | 0                         | 9                           | 14    | 9          | 8      | sw.                          |           |
| <i>The Sea Coast.</i>                       |            |                 |                         |                              |                           |         |      |        |      |                      |                          |                           |                      |                           |                             |       |            |        |                              |           |
| Asbury Park.....                            | Monmouth   | 22              | 38                      |                              |                           | 92      | 29   | 54     | 1†   |                      | 5.16                     | +0.62                     | 1.90                 | 0                         | 13                          | 22    | 8          | 1      | Information Bureau.          |           |
| Atlantic City.....                          | Atlantic   | 16              | 54                      | 71.2                         | -0.9                      | 91      | 29   | 55     | 1    | 20                   | 5.30                     | +1.52                     | 2.88                 | 0                         | 8                           | 11    | 13         | 7      | U. S. Weather Bureau.        |           |
| Cape May City.....                          | Cape May   | 17              | 43                      | 72.9                         | -0.5                      | 92      | 29   | 52     | 1    | 30                   | 4.59                     | +0.81                     | 1.50                 | 0                         | 10                          | 9     | 15         | 7      | U. S. Weather Bureau.        |           |
| Sandy Hook.....                             | Monmouth   | 22              | 29                      | 72.8                         | -0.9                      | 90      | 13   | 58     | 5    | 21                   | 8.35                     | +3.56                     | 3.53                 | 0                         | 15                          | 8     | 10         | 13     | U. S. Weather Bureau.        |           |
| Means and extremes.....                     |            |                 |                         | 72.3                         | -0.8                      | 92      | 29   | 52     | 1    | 30                   | 5.85                     | +1.63                     | 3.53                 | 0                         | 12                          | 12    | 12         | 7      | sw.                          |           |
| For the State.....                          |            |                 |                         | 72.7                         | -1.0                      | 99      | 13   | 36     | 6    | 43                   | 6.06                     | +1.27                     | 4.31                 | 0                         | 11                          | 13    | 10         | 8      | sw.                          |           |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T. precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for July, 1927

| Stations                                   | Drainage Basin  | Day of month |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      | Total |
|--------------------------------------------|-----------------|--------------|-----|-----|-----|----|-----|------|------|-----|-----|-----|-----|----|-----|-----|------|------|------|------|-----|-----|------|------|------|----|-----|------|-----|------|------|------|-------|
|                                            |                 | 1            | 2   | 3   | 4   | 5  | 6   | 7    | 8    | 9   | 10  | 11  | 12  | 13 | 14  | 15  | 16   | 17   | 18   | 19   | 20  | 21  | 22   | 23   | 24   | 25 | 26  | 27   | 28  | 29   | 30   | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Belvidere.....                             | Delaware.....   |              | .03 | T.  |     |    | T.  | .10  |      |     | .10 |     |     |    |     | .36 | .46  | .42  |      |      |     | .05 |      | 1.63 |      |    |     | .12  |     |      |      | .92  | 4.19  |
| Charlotteburg.....                         | Passaic.....    |              | T.  |     | .04 |    | .02 | .08  |      |     | .03 | .02 |     |    |     | .10 | .15  | .65  | .15  | .23  |     | .05 |      | 2.41 |      |    |     | .70  | .05 |      |      | .98  | 5.61  |
| Culvers Lake.....                          | Delaware.....   |              |     | .01 |     |    | .15 | .02  | .07  |     | .02 | .04 |     |    |     | .45 | .68  | .80  |      | .10  |     | .59 |      | 2.11 | T.   |    |     |      |     | .08  |      | .77  | 6.59  |
| Dover.....                                 | Passaic.....    |              |     |     |     |    | .16 | .06  |      |     |     | .01 |     |    |     | .88 | 1.05 | .19  | .04  | .04  |     |     |      | 3.09 |      |    |     | .75  |     | .01  |      | .88  | 6.61  |
| Layton.....                                | Delaware.....   |              |     | .03 |     |    | .04 | .22  |      |     | .04 |     |     |    |     | .33 | 1.22 | .34  |      |      |     | .13 | .06  | 1.43 |      |    |     | 1.57 |     | .43  |      | .72  | 6.56  |
| Newton.....                                | Delaware.....   |              |     | .08 |     |    | .07 | T.   |      |     | .06 | T.  |     |    |     | .13 | .56  | .87  | .02  | .06  | .14 | .01 |      | 2.28 |      |    |     | .13  |     | .01  |      | 1.06 | 5.48  |
| Phillipsburg.....                          | do.....         |              | .19 |     |     |    | .02 | T.   |      |     | .04 | T.  |     |    |     | .05 | .24  | .14  | .15  | .02  |     |     | 1.61 |      |      |    | .14 |      |     | .02  | .33  | 2.95 |       |
| Sussex.....                                | Hudson.....     |              |     | .07 |     |    | .06 |      | .12  |     | .05 | .08 |     |    |     | .05 | .42  | .44  | .08  |      | .05 | .15 |      | 1.88 |      |    |     | .89  |     | .62  |      | 1.10 | 6.01  |
| <i>The Red Sandstone Plain.</i>            |                 |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Bergen Point**.....                        | Coast.....      |              | T.  |     |     |    | .11 |      | 1.38 |     | .08 | .13 |     |    | .01 | T.  | 3.05 | T.   | T.   | .06  |     |     |      | 1.48 |      |    |     |      |     |      | .33  | .22  | 6.85  |
| Boonton   .....                            | Passaic.....    |              | .01 |     |     |    |     | .22  | 1.08 |     | .03 | T.  |     |    |     | .30 | .01  | .30  | .96  |      | .16 |     |      | 1.58 | 1.36 |    |     |      | .08 |      | .60  | 6.69 |       |
| Chatham  .....                             | do.....         |              | .02 |     | .08 |    |     | .14  | .47  |     | .05 | .08 | T.  |    |     |     | 1.05 | .08  | T.   | .13  |     | T.  | 1.61 | 2.70 |      |    |     |      |     | .53  | 6.94 |      |       |
| Elizabeth.....                             | Coast.....      |              |     |     |     |    | .09 | .36  | .31  |     | .11 | .05 |     |    | .04 |     | 1.60 | .51  | T.   | .01  |     |     | T.   | 1.90 | T.   |    |     |      |     | .46  | 5.44 |      |       |
| Flemington.....                            | Raritan.....    |              | .06 |     |     |    | .01 | .41  |      |     | .02 | T.  |     |    |     |     | T.   | .20  |      | .03  |     |     |      | 4.14 |      |    |     | .06  |     |      | T.   | 1.25 | 6.18  |
| Highwood.....                              | Hackensack..... |              | .50 | .11 |     |    | .11 | 1.24 | .01  |     | .11 | .04 |     |    |     | .02 | .77  | .71  | *    | .14  |     |     | T.   | 1.78 |      |    |     | .52  |     | .04  | T.   | 1.60 | 7.70  |
| Jersey City.....                           | Coast.....      |              | T.  | T.  |     |    | .08 | 1.00 |      |     | .09 | .18 |     |    | T.  |     | 1.10 | .30  | .10  | .10  |     |     | T.   | 1.10 |      |    |     |      |     |      | .51  | 4.56 |       |
| Lambertville.....                          | Delaware.....   |              | T.  | .05 |     |    | .01 | .23  |      |     | .06 |     |     |    |     | T.  | .30  | .38  |      | .15  |     | T.  |      | 3.79 |      |    |     | .27  |     | .09  | .43  | 5.76 |       |
| Little Falls.                              | Passaic.....    |              | .01 |     | .01 |    |     | .06  | 1.21 |     | .07 | .01 | .02 |    |     | .25 | .01  | 1.31 | 1.14 |      | .37 |     |      | 2.42 | 1.43 |    |     | .13  |     | .26  | 8.87 |      |       |
| New Brunswick.....                         | Raritan.....    |              | T.  |     |     |    | .01 |      | .65  |     | .05 | .04 |     |    |     |     | 4.07 |      |      | T.   |     |     |      | 1.56 | .01  |    |     | .10  |     | .49  | 6.98 |      |       |
| New Milford.**.....                        | Hackensack..... |              | .08 |     |     |    | .07 | 1.09 |      |     | .10 | .03 |     |    |     |     | .20  | 1.69 | .02  | .39  |     |     |      | 2.49 |      |    |     |      |     | 1.27 | 7.43 |      |       |
| Paterson.....                              | Passaic.....    |              | .10 | .09 |     |    | .04 | .40  | .65  |     | .11 | .01 |     |    |     | .11 | .24  | 1.41 |      | .18  | .01 |     | T.   | 3.34 | .26  |    |     | .04  |     | T.   | .98  | 8.00 |       |
| Plainfield.....                            | Raritan.....    |              |     | T.  |     |    | .05 | .31  |      |     | .08 | T.  |     |    | T.  |     | 1.28 | .10  | .01  | .01  |     |     |      | 4.26 |      |    |     | T.   |     | T.   | .62  | 6.72 |       |
| Ridgefield.....                            | Hackensack..... |              | T.  | T.  |     |    | .12 | 2.55 |      |     |     | .20 |     |    | T.  | .12 |      | 2.27 | .30  | .06  |     |     | T.   | 1.80 |      |    |     | .01  |     | T.   | 1.10 | 8.53 |       |
| Somerville.....                            | Raritan.....    |              |     |     |     | T. |     |      | .24  |     | .04 |     |     |    | .04 |     | T.   | .15  |      |      | T.  |     |      | 4.14 |      |    |     |      |     | .82  | 5.43 |      |       |
| South Orange.....                          | Rahway.....     |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Verona.**.....                             | Passaic.....    |              | .21 | .22 |     |    | .11 | 1.37 |      | T.  | .12 | .06 | T.  |    | .19 | T.  | .79  | .35  | T.   | .16  |     |     | T.   | 4.21 |      |    |     | .08  |     | .04  | .11  | 1.32 | 9.34  |
| Woodcliff Lake**.....                      | Hackensack..... |              | .09 |     |     |    |     | 1.25 |      |     | .06 |     |     |    | .03 |     | .20  | .75  |      |      |     |     |      | 3.76 |      |    |     | .17  |     |      | .79  | 7.10 |       |
| New York, N. Y***.....                     | Coast.....      |              | T.  | T.  | T.  |    | .06 | .85  |      | T.  | .13 | .07 |     |    | .01 |     | 3.00 | T.   | .11  | .09  |     |     | T.   | 1.13 |      |    |     | T.   |     | .21  | .27  | 5.93 |       |
| <i>The Southern Interior.</i>              |                 |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Belleplain.....                            | Tuckahoe.....   |              |     |     |     |    | .06 | .06  | T.   | .18 |     |     |     |    |     |     |      |      | .10  | 2.14 |     |     |      | 1.67 |      |    |     |      |     |      | .99  | 5.20 |       |
| Bridget.....                               | Coast.....      |              |     |     |     |    | .05 |      |      | .73 |     |     |     |    |     |     |      |      | .02  | 1.95 |     |     |      | 2.83 |      |    |     |      |     |      | .56  | 6.14 |       |
| Burlington.....                            | Delaware.....   |              | T.  |     |     |    |     | .05  |      | .07 | .04 | T.  |     |    |     |     | 1.23 |      | .16  | .03  |     |     | 1.75 | .48  |      |    |     | T.   | T.  |      | .03  | 4.26 |       |
| Clayton.....                               | Delaware.....   |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Hammonton.....                             | Mullica.....    |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Hightstown.....                            | Raritan.....    |              | .02 |     |     |    | T.  |      | .05  |     | .15 | .07 |     |    |     |     | 1.33 |      |      |      |     |     |      | .83  | .15  |    |     |      | .10 |      |      | .62  | 3.32  |
| Imlaystown.....                            | Delaware.....   |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Indian Mills.....                          | Mullica.....    |              | .06 |     |     |    | T.  | .30  | .09  |     | .16 |     |     |    |     |     | .28  | .44  | .42  |      |     |     |      | 2.17 |      |    |     | .30  |     | .02  | .24  | 4.48 |       |
| Lakewood.....                              | Metedeconk..... |              | .04 | T.  |     |    | .23 | .20  |      | .20 | .04 |     |     |    |     |     | .10  | .46  | 1.02 | T.   | .03 |     |      | 1.02 |      |    |     | .24  |     | .13  | .91  | 4.41 |       |
| Moorestown.....                            | Delaware.....   |              |     |     |     |    | T.  |      |      | .18 |     |     |     |    |     |     | .12  | .57  |      | .35  |     |     |      | 1.28 |      |    |     | .38  |     | .75  | .95  | 4.58 |       |
| Northfield.....                            | Coast.....      |              | .10 |     |     |    | .07 | .08  | .01  | .06 |     |     |     |    |     |     |      | .28  | 4.09 | .12  |     |     |      | 1.85 |      |    |     |      |     | 1.90 | 8.56 |      |       |
| Pleasantville.                             | Coast.....      |              | .04 |     | .07 |    | *   | .24  | .02  | .06 | .05 |     |     |    |     |     | .11  | *    | 2.88 |      |     |     |      | .32  | 1.45 |    |     |      | T.  |      | .83  | 6.07 |       |
| Riverton.                                  | Delaware.....   |              |     |     | T.  |    | T.  | .06  |      | .09 | .02 |     |     |    |     |     | 1.17 |      |      | .34  |     |     |      | .90  | .64  |    |     |      | .27 |      | .02  | 1.15 | 4.66  |
| Rumyon.....                                | Coast.....      |              |     |     |     |    |     | .11  | .06  |     | .11 | .06 |     |    |     |     | 2.74 |      |      |      |     |     |      | .92  |      |    |     | .13  |     |      | .37  | 4.33 |       |
| Trenton***.....                            | Delaware.....   |              | T.  | T.  |     |    | T.  | T.   | .01  | T.  | .05 | .01 |     |    | T.  |     | 1.08 | .11  | T.   | .12  |     |     |      | 2.48 |      |    |     | T.   |     | T.   | .18  | .36  | 4.40  |
| Tuckerton.....                             | Coast.....      |              |     |     |     |    |     |      | .11  | .13 |     |     |     |    |     |     |      | .10  | 1.32 | .66  | .50 |     |      | 1.30 |      |    |     |      |     |      | 1.80 | 5.92 |       |
| Vineland.....                              | Maurice.....    |              | .22 |     |     |    | .20 |      |      | .53 | .13 |     |     |    |     |     | .05  | 1.85 |      |      |     |     |      | 4.22 | .04  |    |     |      |     |      | .75  | 7.99 |       |
| Phila., Pa.***.....                        | Delaware.....   |              | T.  | T.  |     |    | T.  | T.   | .03  | T.  | .26 |     |     |    |     |     | .50  |      | .59  |      |     |     |      | 1.94 |      |    |     | .07  |     | .01  | 1.08 | .02  | 4.50  |
| <i>The Sea Coast.</i>                      |                 |              |     |     |     |    |     |      |      |     |     |     |     |    |     |     |      |      |      |      |     |     |      |      |      |    |     |      |     |      |      |      |       |
| Asbury Park.....                           | Coast.....      |              | .03 |     |     |    | .35 | .10  |      | .34 | .12 |     |     |    |     |     | .01  | .95  | .05  |      |     |     | T.   | 1.90 |      |    |     | .05  |     |      | .31  | 5.16 |       |
| Atlantic City***.....                      | do.....         |              | T.  | T.  |     |    | T.  | .09  | T.   | .02 | .09 |     |     |    |     |     | .14  | .32  | 2.88 |      |     |     |      | .17  |      |    |     |      |     | T.   | 1.49 | 5.30 |       |
| Cape May City.....                         | do.....         |              |     | .04 |     |    | T.  | .73  | .18  | .07 |     | .02 |     |    |     |     |      | .62  | .85  | .02  |     |     |      | .56  |      |    |     |      |     | T.   | 1.50 | 4.59 |       |
| Sandy Hook***.....                         | do.....         |              | .01 | .01 |     |    | .02 | .04  |      |     | .30 | .04 | .01 |    |     |     | 3.49 | .04  | .66  | .02  |     |     | T.   | 2.83 |      |    |     | .12  |     | T.   | .14  | .62  | 8.33  |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

### MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine                      |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |                                    |
| Atlantic City.....    | 29.99        | 30.28   | 21   | 29.73  | 2    | 16.7            | 50             | s.        | 7    | 82                                     | 76                                        | 83                                      | 64                                 |
| New York, N. Y.....   | 29.99        | 30.28   | 21   | 29.73  | 7    | 14.2            | 45             | nw.       | 4    | 75                                     | 60                                        | 72                                      | 69                                 |
| Philadelphia, Pa..... | 30.01        | 30.29   | 21   | 29.74  | 23   | 8.4             | 30             | sw.       | 7    | 77                                     | 65                                        | 70                                      | 70                                 |
| Ridgefield.....       | 29.99        | 30.29   | 21   | 29.73  |      |                 |                |           |      |                                        |                                           |                                         |                                    |
| Riverton.....         |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |                                    |
| Sandy Hook.....       | 29.98        | 30.28   | 21   | 29.71  | 7    | 12.4            | 52             | sw.       | 18   | 77                                     | 66                                        | 78                                      | 78                                 |
| Trenton.....          | 29.99        | 30.27   | 21   | 29.70  | 7    | 9.7             | 49             | nw.       | 16   | 77                                     | 62                                        | 76                                      | 65                                 |
| Verona.....           | 30.00        | 30.28   | 21   | 29.71  | 7    | 4.8             | 30             | n.        | 7    | 79                                     | 63                                        | 80                                      | 65                                 |



## Daily Temperatures for July, 1927

| Stations                             | 1       | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| The Highlands and Kittatinny Valley. |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Belvidere.....                       | Maximum | 84    | 83    | 84    | 80    | 80    | 76    | 88    | 86    | 85    | 78    | 81    | 91    | 98    | 94    | 92    | 95    | 86    | 87    | 80    | 86    | 88    | 77    | 81    | 79    | 89    | 90    | 89    | 89    | 88    | 88    | 80    | 85.5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 54    | 63    | 58    | 55    | 45    | 47    | 56    | 55    | 51    | 62    | 63    | 65    | 69    | 70    | 66    | 69    | 70    | 67    | 63    | 60    | 60    | 61    | 63    | 57    | 57    | 57    | 61    | 60    | 61    | 61    | 68    | 60.5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Charlotteburg.....                   | Maximum | 77    | 74    | 82    | 76    | 73    | 78    | 83    | 80    | 82    | 80    | 78    | 87    | 94    | 92    | 89    | 90    | 89    | 84    | 84    | 84    | 82    | 79    | 74    | 75    | 82    | 87    | 80    | 87    | 88    | 87    | 86    | 82.7  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 46    | 50    | 60    | 55    | 41    | 36    | 51    | 42    | 43    | 59    | 62    | 59    | 64    | 62    | 60    | 65    | 68    | 64    | 60    | 55    | 58    | 58    | 59    | 51    | 59    | 48    | 55    | 52    | 60    | 58    | 55.3  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dover.....                           | Maximum | 78    | 77    | 80    | 72    | 74    | 72    | 86    | 82    | 80    | 73    | 74    | 88    | 95    | 91    | 89    | 89    | 83    | 84    | 72    | 82    | 81    | 71    | 71    | 76    | 85    | 87    | 86    | 89    | 86    | 84    | 79    | 81.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 52    | 62    | 59    | 54    | 45    | 44    | 55    | 57    | 50    | 62    | 65    | 63    | 63    | 70    | 67    | 69    | 70    | 67    | 62    | 59    | 58    | 63    | 62    | 56    | 57    | 56    | 60    | 60    | 64    | 60    | 59.9  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Layton.....                          | Maximum | 80    | 80    | 79    | 72    | 75    | 70    | 81    | 81    | 82    | 72    | 81    | 90    | 96    | 92    | 88    | 88    | 85    | 83    | 80    | 83    | 84    | 73    | 76    | 78    | 85    | 86    | 87    | 87    | 88    | 82    | 78    | 82.0  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 54    | 59    | 62    | 52    | 40    | 40    | 54    | 55    | 45    | 60    | 65    | 62    | 65    | 65    | 66    | 66    | 69    | 66    | 59    | 58    | 60    | 62    | 64    | 52    | 55    | 54    | 60    | 62    | 65    | 58    | 68    | 58.8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newton.....                          | Maximum | 79    | 79    | 81    | 81    | 76    | 73    | 82    | 82    | 78    | 70    | 80    | 87    | 95    | 92    | 86    | 89    | 85    | 85    | 78    | 81    | 83    | 74    | 75    | 77    | 85    | 87    | 85    | 87    | 87    | 81    | 78    | 81.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 58    | 68    | 59    | 48    | 48    | 47    | 56    | 52    | 58    | 60    | 63    | 64    | 68    | 70    | 68    | 68    | 69    | 65    | 63    | 64    | 58    | 62    | 62    | 56    | 58    | 58    | 62    | 58    | 68    | 61    | 65    | 60.6  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phillipsburg.....                    | Maximum | 79    | 79    | 81    | 81    | 76    | 73    | 82    | 82    | 78    | 70    | 80    | 87    | 95    | 92    | 86    | 89    | 85    | 85    | 78    | 81    | 83    | 74    | 75    | 77    | 85    | 87    | 85    | 87    | 87    | 81    | 78    | 81.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 53    | 62    | 60    | 57    | 47    | 49    | 57    | 60    | 52    | 64    | 67    | 66    | 67    | 71    | 68    | 70    | 71    | 68    | 64    | 61    | 61    | 65    | 63    | 57    | 61    | 59    | 62    | 61    | 64    | 62    | 68    | 61.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sussex.....                          | Maximum | 79    | 80    | 83    | 74    | 75    | 72    | 83    | 87    | 83    | 70    | 72    | 89    | 95    | 93    | 90    | 90    | 85    | 86    | 85    | 84    | 84    | 75    | 74    | 77    | 85    | 88    | 86    | 88    | 88    | 84    | 78    | 82.4  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 51    | 52    | 56    | 33    | 44    | 41    | 55    | 55    | 45    | ....  | 64    | 63    | 67    | ....  | 69    | 69    | 73    | 66    | 61    | 57    | 59    | 62    | 58    | 55    | 57    | 52    | 58    | 59    | 66    | 58    | 67    | 55.4  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The Red Sandstone Plain.             |         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bergen Point.....                    | Maximum | 78    | 77    | 88    | 78    | ..... | 87    | 83    | 86    | 75    | 75    | 89    | 97    | 97    | 91    | 93    | 87    | 83    | 76    | 83    | 80    | 73    | 73    | 81    | 86    | 87    | 91    | 92    | 93    | 88    | 88    | 80    | 84.6  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 58    | 64    | 58    | 59    | 53    | 56    | 62    | 63    | 63    | 64    | 65    | 65    | 67    | 74    | 73    | 71    | 65    | 74    | 69    | 64    | 62    | 66    | 62    | 62    | 63    | 62    | 65    | 71    | 68    | 69    | 64.5  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Boonton§§.....                       | Maximum | 80    | 80    | 80    | 78    | 74    | 73    | 84    | 80    | 82    | 74    | 78    | 86    | 92    | 90    | 89    | 89    | 84    | 85    | 77    | 85    | 81    | 74    | 75    | 77    | 86    | 89    | 85    | 88    | 86    | 78    | 82.3  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 48    | 62    | 60    | 57    | 43    | 42    | 54    | 60    | 50    | 61    | 62    | 61    | 65    | 66    | 66    | 70    | 69    | 67    | 63    | 58    | 57    | 61    | 62    | 55    | 60    | 54    | 59    | ..... | 63    | 58    | 67    | 59.3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Elizabeth.....                       | Maximum | 80    | 78    | 83    | 77    | 77    | 78    | 88    | 84    | 83    | 74    | 72    | 93    | 97    | 96    | 95    | 92    | 90    | 86    | 81    | 88    | 81    | 73    | 75    | 80    | 86    | 88    | 88    | 91    | 92    | 88    | 84    | 84.5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 53    | 61    | 62    | 57    | 48    | 47    | 58    | 61    | 57    | 64    | 61    | 64    | 69    | 70    | 70    | 61    | 69    | 73    | 68    | 62    | 60    | 64    | 65    | 58    | 60    | 60    | 62    | 61    | 66    | 63    | 69    | 62.5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flemington.....                      | Maximum | 79    | 76    | 83    | 79    | 76    | 75    | 87    | 86    | 81    | 72    | 82    | 92    | 90    | 93    | 97    | 92    | 90    | 87    | 82    | 87    | 87    | 77    | 89    | 80    | 83    | 89    | 88    | 94    | 89    | 88    | 81    | 84.8  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 54    | 63    | 60    | 57    | 49    | 49    | 56    | 60    | 54    | 64    | 67    | 65    | 70    | 70    | 68    | 73    | 71    | 67    | 66    | 60    | 60    | 65    | 65    | 59    | 59    | 61    | 64    | 61    | 67    | 63    | 69    | 62.5  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Highwood.....                        | Maximum | 76    | 73    | 79    | 74    | 75    | 74    | 81    | 80    | 78    | 70    | 75    | 86    | 92    | 91    | 91    | 88    | 80    | 80    | 75    | 80    | 79    | 69    | 70    | ..... | 83    | 81    | 85    | 87    | 87    | 82    | 75    | 70.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 50    | 62    | 60    | 57    | 45    | 47    | 61    | 58    | 52    | 64    | 65    | 63    | 68    | 73    | 69    | 72    | 70    | 73    | 65    | 61    | 61    | 65    | 65    | 60    | 60    | 58    | 62    | 60    | 67    | 61    | 70    | 62.1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Jersey City.....                     | Maximum | 80    | 74    | 84    | 72    | 76    | 77    | 86    | 82    | 82    | 71    | 79    | 99    | 96    | 95    | 94    | 93    | 86    | 86    | 78    | 84    | 82    | 71    | 74    | 79    | 85    | 86    | 89    | 90    | 91    | 88    | 81    | 83.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 57    | 63    | 65    | 58    | 55    | 60    | 64    | 62    | 65    | 64    | 63    | 72    | 75    | 74    | 70    | 71    | 71    | 67    | 66    | 67    | 65    | 64    | 64    | 65    | 67    | 66    | 66    | 73    | 68    | 67    | 66.7  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lambertville.....                    | Maximum | 80    | 77    | 81    | 77    | 73    | 74    | 87    | 82    | 82    | 74    | 78    | 90    | 95    | 94    | 92    | 87    | 88    | 75    | 83    | 85    | 75    | 77    | 78    | 84    | 88    | 86    | 89    | 90    | 91    | 88    | 81    | 83.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 54    | 62    | 61    | 54    | 51    | 52    | 59    | 60    | 60    | 64    | 66    | 66    | 70    | 73    | 70    | 71    | 70    | 73    | 66    | 61    | 61    | 63    | 64    | 59    | 59    | 63    | 66    | 61    | 69    | 64    | 67    | 63.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Little Falls§§.....                  | Maximum | 80    | 79    | 85    | 75    | 78    | 77    | 80    | 83    | 82    | 76    | 79    | 91    | 97    | 94    | 93    | 91    | 86    | 87    | 77    | 85    | 81    | 74    | 74    | 79    | 87    | 88    | 89    | 92    | 90    | 87    | 81    | 83.9  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 52    | 63    | 60    | 57    | 41    | 45    | 56    | 60    | 52    | 62    | 63    | 62    | 68    | 70    | 68    | 72    | 69    | 71    | 65    | 61    | 60    | 63    | 64    | 58    | 62    | 57    | 61    | 59    | 65    | 61    | 68    | 61.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Brunswick.....                   | Maximum | 77    | 77    | 82    | 80    | 76    | 76    | 88    | 81    | 79    | 72    | 76    | 89    | 96    | 94    | 94    | 92    | 88    | 85    | 80    | 82    | 81    | 74    | 76    | 78    | 84    | 88    | 88    | 89    | 90    | 86    | 81    | 83.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 52    | 63    | 60    | 58    | 49    | 48    | 58    | 62    | 60    | 64    | 66    | 64    | 70    | 73    | 71    | 73    | 69    | 74    | 69    | 62    | 62    | 63    | 63    | 61    | 59    | 61    | 65    | 63    | 67    | 64    | 68    | 63.3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paterson.....                        | Maximum | 80    | 77    | 82    | 82    | 76    | 74    | 86    | 82    | 80    | 73    | 77    | 88    | 97    | 95    | 91    | 93    | 86    | 83    | 81    | 82    | 79    | 74    | 70    | 78    | 85    | 85    | 89    | 91    | 85    | 78    | 82.8  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 55    | 64    | 62    | 58    | 52    | 53    | 59    | 60    | 58    | 64    | 67    | 65    | 72    | 73    | 72    | 73    | 72    | 72    | 66    | 64    | 62    | 66    | 65    | 59    | 62    | 63    | 65    | 62    | 69    | 66    | 69    | 62.1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Plainfield.....                      | Maximum | 81    | 74    | 84    | 73    | 76    | 78    | 87    | 83    | 82    | 71    | 79    | 90    | 96    | 93    | 95    | 94    | 87    | 86    | 75    | 85    | 82    | 72    | 74    | 79    | 85    | 88    | 88    | 89    | 92    | 87    | 81    | 83.4  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 51    | 58    | 56    | 45    | 45    | 56    | 59    | 53    | 64    | 64    | 69    | 69    | 69    | 67    | 72    | 68    | 72    | 66    | 60    | 59    | 64    | 63    | 56    | 59    | 57    | 61    | 62    | 65    | 61    | 67    | 61.1  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ridgefield.....                      | Maximum | 77    | 75    | 82    | 75    | 75    | 75    | 84    | 83    | 81    | 70    | 78    | 93    | 91    | 92    | 88    | 83    | 84    | 75    | 85    | 81    | 71    | 74    | 79    | 83    | 85    | 87    | 88    | 89    | 86    | 78    | 81.7  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 54    | 62    | 69    | 55    | 49    | 51    | 63    | 59    | 56    | 64    | 64    | 71    | 73    | 71    | 74    | 70    | 73    | 65    | 62    | 65    | 65    | 61    | 62    | 64    | 64    | 61    | 63    | 64    | 61    | 63    | 64    | 63.3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Somerville.....                      | Maximum | 82    | 80    | 85    | 82    | 80    | 80    | 90    | 85    | 83    | 77    | 78    | 93    | 99    | 98    | 97    | 96    | 91    | 90    | 85    | 82    | 74    | 78    | 80    | 82    | 80    | 90    | 90    | 91    | 93    | 90    | 84    | 86.6  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 51    | 63    | 59    | 56    | 44    | 43    | 56    | 60    | 53    | 65    | 67    | 64    | 65    | 69    | 67    | 70    | 70    | 72    | 67    | 60    | 56    | 65    | 65    | 55    | 55    | 58    | 61    | 59    | 60    | 68    | 60.9  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| South Orange.....                    | Maximum | ..... | ..... | ..... | ..... | ..... | 88    | ..... | ..... | ..... | ..... | 94    | 98    | 98    | 96    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Verona.....                          | Maximum | 76    | 74    | 80    | 72    | 72    | 74    | 81    | 78    | 77    | 70    | 75    | 85    | 91    | 89    | 87    | 86    | 83    | 81    | 75    | 79    | 77    | 68    | 71    | 75    | 81    | 81    | 84    | 84    | 87    | 82    | 77    | 79.1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                      | Minimum | 53    | 62    | 61    | 55    | 48    | 52    | 59    | 59    | 55    | 62    | 65    | 62    | 70    | 72    | 69    | 70    | 69    | 72    | 64    | 61    | 64    | 64    | 60    | 62    |       |       |       |       |       |       |       |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXII.

AUGUST, 1927.

No. 8

### GENERAL SUMMARY.

August, 1927 will probably be a record for both low temperature and excess of rain for a long period to come. In this playground State where favorable weather is a factor of first importance during the midsummer months, this record has caused widespread comment and much disappointment at the seashore and other resorts. It was the coldest August since records for the entire State were first compiled in 1885, and one of the three rainiest, the only wetter Augusts being in 1901 and 1911. The low temperature was not a condition of absolute cold, for the nights were but slightly cooler than normal, but was due to the fact that it did not warm up during the daylight hours as is normally the case. Fog was noticeably frequent, and the greater portion of the rain fell in some three or four showers. The rainiest portion of the State was from Middlesex county northward into Passaic, and therefore did not greatly affect the agricultural situation. While the crop condition was not of the best, it was much better than in some other years when weather conditions would have seemed to be less unfavorable. The cold August of 1903 appears to have been a very unfavorable midsummer month for crops.

The accumulated factors of precipitation and temperature for the year 1927 to date are just about normal, the variation being immaterial.

Storm warnings were displayed along the coast on the 23d and 24th for a tropical storm which caused considerable damage to shipping to the northeastward of the New Jersey coast.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 67.1°, which was 4.9° below normal. The highest temperature was 89° at Bridgeton, Indian Mills and Vineland on the 7th, and at Indian Mills and Runyon on the 8th, and the lowest, 37°, at Belleplain on the 25th. The greatest daily range of temperature was 38° at Belleplain on the 25th. The highest monthly mean temperature was 70.5° at Vineland, and the lowest, 63.7° at Charlotteburg.

The temperature departure from the normal for the year, 1927, to date, by sections, is: The Highlands, -0.3°; Red Sandstone Plain, -0.8°; Southern Interior, -0.4°; Sea Coast, -0.1°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 42 stations, was 8.55 inches, which was 3.48 inches above normal.

The greatest monthly precipitation was 12.87 inches, at Plainfield, and the least, 2.88 inches at Cape May City. The greatest amount of precipitation in any 24 consecutive hours was 4.32 inches at Plainfield on the 8-9th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 12, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -0.43 inch; Red Sandstone Plain, +1.19 inches; Southern Interior, -4.63 inches; Sea Coast, -3.45 inches.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 10 miles per hour, which was 1 mile above normal. The highest velocity, sustained for 5 consecutive

minutes, was 62 miles per hour from the northeast at Atlantic City on the 26th. High winds also occurred on the 1st, 8th, 26th and 27th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 11, which was 2 less than normal; partly cloudy, 9, or 2 less than normal; cloudy, 11, or 4 more than normal. The per cent of possible sunshine was 54, which was 12 per cent below normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 29.99 inches, which was 0.01 inch below normal. The highest reading was 30.32 inches on the 26th at Ridgefield and Verona, and the lowest, 29.68 inches on the 24th at Sandy Hook.

The mean stage of the Delaware River at Phillipsburg was 2.9 feet; and the highest, 6.9 feet on the 29th. At Trenton the daily stage was 1.7 feet, which was 0.6 foot above normal. The highest stage, 4.0 feet on the 31st.

Thunderstorms occurred on the 1st, 2d, 4th to the 9th, inclusive, 13th, 14th, 15th, 18th, 24th, 27th, 29th and 31st. Dense fog was noted on the 2d, 5th, 7th, 22d, 23d, 24th, 28th and 31st. Solar halos were observed on the 16th, 25th and 31st.

A violent wind and rain storm, closely approaching tornadic characteristics caused heavy damage in West Berlin on the 8th. Many buildings were damaged and some totally wrecked. Several persons were hurt with minor injuries. Torrential rain and lightning caused considerable damage in various portions of the State attendant upon the same storm.

Light hail, with no damage fell over the northeastern quarter of the State on the 1st, 2d, 5th, 8th and 29th.

### COMPARATIVE DATA FOR AUGUST

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 71.7        | 95      | 40     | 6.11          | 10.09    | 3.47  | .....       | .....         | .....  | .....                  |
| 1886..... | 69.5        | 96      | 42     | 2.81          | 5.36     | 1.10  | .....       | .....         | .....  | 8                      |
| 1887..... | 70.4        | 94      | 42     | 3.76          | 7.34     | 2.09  | .....       | .....         | .....  | 9                      |
| 1888..... | 72.5        | 98      | 41     | 6.13          | 10.53    | 2.55  | .....       | .....         | .....  | 10                     |
| 1889..... | 69.6        | 91      | 45     | 5.13          | 9.06     | 1.93  | .....       | .....         | .....  | 11                     |
| 1890..... | 71.5        | 99      | 40     | 4.90          | 7.51     | 2.89  | 8           | 15            | 8      | 13                     |
| 1891..... | 72.8        | 100     | 46     | 5.32          | 8.89     | 2.58  | 8           | 11            | 12     | 9                      |
| 1892..... | 73.4        | 99      | 46     | 3.63          | 5.65     | 0.72  | 12          | 13            | 6      | 8                      |
| 1893..... | 72.8        | 98      | 38     | 6.52          | 11.94    | 3.55  | 14          | 11            | 6      | 7                      |
| 1894..... | 70.9        | 97      | 44     | 2.58          | 9.28     | 0.15  | 13          | 12            | 6      | 7                      |
| 1895..... | 74.2        | 102     | 34     | 2.53          | 5.06     | 0.02  | 16          | 12            | 3      | 7                      |
| 1896..... | 73.6        | 105     | 39     | 1.83          | 3.27     | 0.50  | 17          | 10            | 4      | 7                      |
| 1897..... | 71.0        | 91      | 41     | 4.39          | 8.69     | 2.07  | 14          | 12            | 5      | 9                      |
| 1898..... | 74.8        | 98      | 42     | 5.36          | 9.28     | 2.70  | 12          | 12            | 7      | 10                     |
| 1899..... | 72.3        | 99      | 39     | 4.36          | 9.70     | 2.16  | 10          | 12            | 9      | 9                      |
| 1900..... | 76.3        | 104     | 41     | 2.68          | 4.56     | 0.70  | 15          | 11            | 5      | 10                     |
| 1901..... | 73.8        | 98      | 44     | 9.43          | 15.80    | 4.88  | 12          | 10            | 9      | 11                     |
| 1902..... | 70.1        | 93      | 40     | 3.91          | 10.67    | 1.31  | 15          | 13            | 3      | 9                      |
| 1903..... | 68.4        | 98      | 39     | 6.95          | 14.54    | 4.30  | 10          | 10            | 11     | 13                     |
| 1904..... | 70.8        | 92      | 37     | 6.62          | 13.01    | 2.65  | 15          | 10            | 6      | 9                      |
| 1905..... | 71.1        | 95      | 38     | 5.72          | 9.88     | 3.51  | 13          | 10            | 8      | 12                     |
| 1906..... | 74.6        | 97      | 42     | 5.95          | 17.91    | 2.21  | 10          | 11            | 10     | 13                     |
| 1907..... | 70.5        | 96      | 39     | 3.45          | 7.61     | 1.79  | 14          | 12            | 5      | 10                     |
| 1908..... | 70.6        | 103     | 36     | 5.05          | 9.23     | 2.43  | 11          | 10            | 10     | 10                     |
| 1909..... | 70.2        | 100     | 34     | 4.59          | 12.94    | 1.41  | 14          | 9             | 8      | 6                      |
| 1910..... | 70.4        | 92      | 36     | 3.78          | 8.46     | 1.76  | 9           | 10            | 12     | 10                     |
| 1911..... | 72.1        | 101     | 39     | 8.91          | 14.74    | 5.31  | 10          | 11            | 10     | 11                     |
| 1912..... | 70.0        | 95      | 35     | 3.42          | 7.62     | 1.19  | 12          | 13            | 6      | 10                     |
| 1913..... | 71.7        | 100     | 38     | 4.06          | 10.21    | 1.93  | 18          | 9             | 4      | 10                     |
| 1914..... | 73.3        | 98      | 46     | 3.15          | 6.53     | 1.04  | 13          | 12            | 6      | 9                      |
| 1915..... | 70.9        | 98      | 41     | 7.73          | 10.92    | 4.02  | 11          | 11            | 9      | 13                     |
| 1916..... | 73.2        | 100     | 40     | 1.34          | 4.15     | 0.27  | 20          | 7             | 4      | 6                      |
| 1917..... | 74.0        | 103     | 42     | 2.21          | 5.68     | 0.86  | 18          | 9             | 4      | 8                      |
| 1918..... | 74.4        | 108     | 40     | 1.85          | 4.25     | 0.34  | 18          | 7             | 6      | 7                      |
| 1919..... | 69.9        | 98      | 38     | 6.89          | 12.88    | 3.09  | 13          | 10            | 8      | 13                     |
| 1920..... | 72.3        | 94      | 42     | 6.10          | 10.60    | 2.94  | 8           | 11            | 12     | 17                     |
| 1921..... | 69.8        | 97      | 38     | 4.32          | 8.01     | 2.05  | 18          | 7             | 6      | 9                      |
| 1922..... | 71.2        | 96      | 39     | 4.03          | 6.78     | 2.18  | 13          | 9             | 9      | 12                     |
| 1923..... | 70.8        | 98      | 35     | 2.44          | 4.81     | 1.23  | 17          | 8             | 6      | 8                      |
| 1924..... | 71.9        | 102     | 38     | 4.40          | 9.48     | 1.82  | 18          | 8             | 5      | 8                      |
| 1925..... | 71.0        | 93      | 35     | 2.10          | 4.12     | 0.94  | 20          | 6             | 5      | 7                      |
| 1926..... | 72.8        | 101     | 38     | 6.58          | 8.84     | 3.74  | 11          | 9             | 11     | 14                     |
| 1927..... | 67.1        | 89      | 37     | 8.55          | 12.87    | 2.88  | 11          | 9             | 11     | 12                     |



## Climatological Data for August, 1927

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                            |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                     |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Belvidere.....                       | Warren.....     | 289             | 36                      | 67.8                         | -3.2                      | 88      | 7     | 44     | 25    | 35                       | 7.82  | +3.21                     | 1.64                 | 0                         | 13                           | 18    | 2          | 11                           | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                          |
| Charlottetown.....                   | Passaic.....    | 719             | 35                      | 63.7                         | -4.2                      | 83      | 7†    | 39     | 26    | 37                       | 8.33  | +3.71                     | 1.96                 | 0                         | 15                           | 1     | 9          | 21                           | w.        |                                                                                                                            |
| Culvers Lake††.....                  | Sussex.....     | 84              | 26                      | 65.2                         | -3.9                      | 82      | 7†    | 42     | 3     | 37                       | 9.18  | +4.76                     | 1.99                 | 0                         | 14                           | 20    | 2          | 9                            | sw.       |                                                                                                                            |
| Dover.....                           | Morris.....     | 600             | 43                      | 65.2                         | -3.9                      | 82      | 7†    | 43     | 25    | 33                       | 8.29  | +3.53                     | 2.04                 | 0                         | 13                           | 2     | 17         | 12                           | .....     |                                                                                                                            |
| Layton.....                          | Sussex.....     | 480             | 26                      | 63.8                         | -4.6                      | 82      | 8     | 40     | 3†    | 36                       | 8.59  | +4.69                     | 2.08                 | 0                         | 15                           | 14    | 4          | 13                           | sw.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                       |
| Newton.....                          | Sussex.....     | 769             | 43                      | 65.6                         | -4.8                      | 83      | 7†    | 44     | 25    | 31                       | 8.06  | +3.64                     | 2.32                 | 0                         | 17                           | 15    | 5          | 11                           | sw.       |                                                                                                                            |
| Phillipsburg.....                    | Warren.....     | 363             | 44                      | 65.2                         | -6.6                      | 83      | 7     | 38     | 28    | 29                       | 4.19  | -0.43                     | 0.93                 | 0                         | 10                           | 20    | 3          | 8                            | .....     |                                                                                                                            |
| Sussex.....                          | Sussex.....     | 442             | 32                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Means and extremes.....              |                 | .....           | .....                   | 65.2                         | -4.6                      | 88      | 7     | 38     | 28    | 37                       | 7.78  | +3.30                     | 2.32                 | 0                         | 14                           | 13    | 6          | 12                           | sw.       |                                                                                                                            |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Bergen Point††.....                  | Hudson.....     | 37              | 30                      | 68.0†                        | -4.2                      | 83      | 1†    | 51     | 25    | 27                       | 10.17 | +5.11                     | 3.47                 | 0                         | 11                           | 5     | 17         | 9                            | sw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                           |
| Boonton.....                         | Morris.....     | 400             | 37                      | 65.4                         | -5.9                      | 83      | 1     | 44     | 18†   | 33                       | 11.22 | +6.14                     | 3.85                 | 0                         | 15                           | 14    | 0          | 17                           | sw.       |                                                                                                                            |
| Chatham.....                         | Morris.....     | 185             | 23                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 11.66 | +7.25                     | 2.46                 | 0                         | 12                           | 19    | 7          | 5                            | .....     |                                                                                                                            |
| Elizabeth.....                       | Union.....      | 45              | 48                      | 67.2                         | -6.2                      | 84      | 5†    | 46     | 25    | 32                       | 10.26 | +5.97                     | 3.60                 | 0                         | 13                           | 16    | 6          | 9                            | ne.       |                                                                                                                            |
| Flemington.....                      | Hunterdon.....  | 140             | 41                      | 67.6                         | -4.9                      | 85      | 12†   | 45     | 25    | 33                       | 7.34  | +2.63                     | 1.78                 | 0                         | 14                           | 18    | 4          | 9                            | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                           |
| Highwood††.....                      | Bergen.....     | 90              | 39                      | 65.2                         | -5.6                      | 80      | 13    | 46     | 25    | 28                       | 11.68 | +6.93                     | 3.09                 | 0                         | 11                           | 12    | 6          | 13                           | se.       |                                                                                                                            |
| Jersey City.....                     | Hudson.....     | 10              | 29                      | 69.2                         | -4.9                      | 85      | 1     | 53     | 27    | 23                       | 7.91  | +3.38                     | 2.41                 | 0                         | 12                           | 7     | 15         | 9                            | s.        |                                                                                                                            |
| Lambertville.....                    | Hunterdon.....  | 370             | 40                      | 67.1                         | -5.3                      | 84      | 7†    | 50     | 3     | 25                       | 9.33  | +4.67                     | 2.99                 | 0                         | 15                           | 15    | 6          | 10                           | nw.       |                                                                                                                            |
| Little Falls.....                    | Passaic.....    | 180             | 24                      | 66.7                         | -6.5                      | 85      | 13    | 46     | 25    | 33                       | 11.03 | +6.63                     | 3.34                 | 0                         | 12                           | 13    | 7          | 11                           | nw.       | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.       |
| New Brunswick.....                   | Middlesex.....  | 110             | 74                      | 67.4                         | -4.7                      | 86      | 8     | 47     | 25    | 28                       | 9.62  | +4.47                     | 2.89                 | 0                         | 13                           | 12    | 11         | 8                            | n.        |                                                                                                                            |
| New Milford††.....                   | Bergen.....     | 9               | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 10.85 | .....                     | 2.69                 | 0                         | 11                           | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Paterson.....                        | Passaic.....    | 80              | 56                      | 67.8                         | -4.4                      | 84      | 5†    | 51     | 25    | 27                       | 9.94  | +5.21                     | 2.50                 | 0                         | 13                           | 14    | 7          | 10                           | ne.       |                                                                                                                            |
| Plainfield.....                      | Union.....      | 120             | 39                      | 66.6                         | -5.2                      | 85      | 13    | 45     | 25    | 31                       | 12.87 | +7.66                     | 4.32                 | 0                         | 11                           | 8     | 15         | 8                            | ne.       |                                                                                                                            |
| Ridgefield.....                      | Bergen.....     | 80              | 10                      | 66.4                         | .....                     | 83      | 9     | 48     | 25    | 28                       | 9.70  | .....                     | 3.41                 | 0                         | 13                           | 8     | 12         | 11                           | s.        | George P. Kirsten.<br>H. B. TenEyck.<br>T. R. Feuner.<br>Luther Davis.<br>Hackensack Water Co.                             |
| Somerville.....                      | Somerset.....   | 70              | 44                      | 67.8                         | -4.6                      | 88      | 7†    | 44     | 25    | 35                       | 9.27  | +4.43                     | 3.60                 | 0                         | 11                           | 18    | 2          | 11                           | w.        |                                                                                                                            |
| South Orange.....                    | Essex.....      | 200             | 57                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 11.75 | .....                     | 3.53                 | 0                         | 12                           | 3     | 15         | 13                           | ne.       |                                                                                                                            |
| Verona.....                          | Essex.....      | 490             | 1                       | 65.6                         | .....                     | 80      | 1†    | 49     | 3     | 23                       | 9.83  | .....                     | 2.54                 | 0                         | 11                           | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Woodcliff Lake††.....                | Bergen.....     | 100             | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | 0                         | 12                           | ..... | .....      | .....                        | .....     |                                                                                                                            |
| New York, N. Y.....                  | .....           | 365             | 57                      | 67.5                         | -5.6                      | 83      | 1     | 53     | 27    | 19                       | 8.05  | +3.52                     | 2.79                 | 0                         | 11                           | 7     | 12         | 12                           | s.        | U. S. Weather Bureau.                                                                                                      |
| Means and extremes.....              |                 | .....           | .....                   | 67.0                         | -5.2                      | 88      | 7†    | 44     | 18†   | 35                       | 10.26 | +5.42                     | 4.32                 | 0                         | 12                           | 12    | 9          | 10                           | ne.       |                                                                                                                            |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Belleplaine.....                     | Cape May.....   | 30              | 33                      | 65.7†                        | -6.9                      | 88      | 7     | 37     | 25    | 38                       | 5.02  | +0.72                     | 1.82                 | 0                         | 12                           | ..... | .....      | .....                        | .....     | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.                                                          |
| Bridgeton.....                       | Cumberland..... | 90              | 46                      | 68.8                         | -6.2                      | 89      | 7     | 46     | 25    | 34                       | 4.36  | -0.23                     | 1.40                 | 0                         | 10                           | 9     | 12         | 10                           | n.        |                                                                                                                            |
| Burlington.....                      | Burlington..... | 12              | 41                      | 68.7                         | -5.5                      | 88      | 13    | 46     | 25    | 30                       | 8.66  | +3.21                     | 2.36                 | 0                         | 13                           | 8     | 15         | 8                            | sw.       |                                                                                                                            |
| Clayton.....                         | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | 67.6                         | -4.7                      | 88      | 8     | 43     | 3     | 33                       | 9.17  | +4.59                     | 2.68                 | 0                         | 10                           | 15    | 10         | 6                            | sw.       | Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                                                |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Indian Mills††.....                  | Burlington..... | 76              | 38                      | 68.2                         | -4.4                      | 89      | 7†    | 44     | 25    | 32                       | 9.89  | +3.96                     | 2.33                 | 0                         | 13                           | 7     | 13         | 11                           | sw.       |                                                                                                                            |
| Lakewood.....                        | Ocean.....      | 54              | 23                      | 66.9                         | -4.2                      | 85      | 8     | 44     | 25    | 30                       | 9.03  | +2.98                     | 2.37                 | 0                         | 13                           | 9     | 5          | 17                           | sw.       |                                                                                                                            |
| Moorestown.....                      | Burlington..... | 75              | 61                      | 68.4                         | -4.2                      | 87      | 7†    | 47     | 25    | 30                       | 10.23 | +5.34                     | 3.35                 | 0                         | 12                           | 10    | 8          | 13                           | sw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                        |
| Northfield††.....                    | Atlantic.....   | 25              | 20                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 4.44  | +0.09                     | 2.35                 | 0                         | 10                           | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Pleasantville††.....                 | Atlantic.....   | 26              | 29                      | 66.8                         | .....                     | 85      | 9     | 42     | 25    | 31                       | 5.43  | +0.50                     | 2.68                 | 0                         | 13                           | 13    | 8          | 10                           | ne.       |                                                                                                                            |
| Riverton.....                        | Burlington..... | 1               | 67.2                    | .....                        | .....                     | 85      | 8     | 46     | 25    | 28                       | 8.54  | .....                     | 2.33                 | 0                         | 13                           | 9     | 4          | 18                           | ne.       |                                                                                                                            |
| Runyon††.....                        | Middlesex.....  | 18              | 3                       | 65.7                         | .....                     | 89      | 8     | 40     | 25    | 37                       | 11.24 | .....                     | 3.66                 | 0                         | 10                           | 14    | 11         | 6                            | w.        | Japanese Beetle Laboratory<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Trenton.....                         | Mercer.....     | 190             | 55                      | 68.0                         | -5.0                      | 86      | 7     | 51     | 25    | 25                       | 7.93  | +2.56                     | 3.12                 | 0                         | 11                           | 3     | 14         | 14                           | n.        |                                                                                                                            |
| Tuckerton.....                       | Ocean.....      | 23              | 34                      | 68.5†                        | -4.2                      | 86      | 7     | 45     | 25    | 31                       | 5.99  | +0.45                     | 2.10                 | 0                         | 12                           | 21    | 7          | 3                            | e.        |                                                                                                                            |
| Vineland.....                        | Cumberland..... | 109             | 58                      | 70.5                         | -3.2                      | 89      | 7     | 47     | 25    | 33                       | 4.91  | +0.10                     | 1.89                 | 0                         | 9                            | 9     | 11         | 11                           | n.        |                                                                                                                            |
| Philadelphia, Pa.....                | .....           | 117             | 56                      | 70.2                         | -4.6                      | 85      | 8     | 54     | 27    | 21                       | 7.27  | +2.66                     | 1.90                 | 0                         | 13                           | 3     | 10         | 18                           | sw.       | U. S. Weather Bureau.                                                                                                      |
| Means and extremes.....              |                 | .....           | .....                   | 67.8                         | -4.8                      | 89      | 7†    | 37     | 25    | 38                       | 7.49  | +2.02                     | 3.66                 | 0                         | 12                           | 11    | 10         | 10                           | sw.       |                                                                                                                            |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Asbury Park.....                     | Monmouth.....   | 22              | 38                      | 68.0                         | -3.8                      | 83      | 9     | 51     | 25    | 21                       | 10.00 | +4.94                     | 2.65                 | 0                         | 13                           | 20    | 7          | 4                            | sw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                             |
| Atlantic City.....                   | Atlantic.....   | 16              | 54                      | 68.4                         | -4.1                      | 85      | 9     | 53     | 25    | 21                       | 5.34  | +1.04                     | 2.91                 | 0                         | 12                           | 7     | 14         | 10                           | s.        |                                                                                                                            |
| Cape May City.....                   | Cape May.....   | 17              | 43                      | 68.4                         | -5.0                      | 85      | 9     | 50     | 25    | 26                       | 2.88  | -1.38                     | 0.89                 | 0                         | 14                           | 7     | 9          | 15                           | se.       |                                                                                                                            |
| Sandy Hook.....                      | Monmouth.....   | 22              | 29                      | 67.8                         | -5.0                      | 83      | 5     | 55     | 27    | 20                       | 7.30  | +2.76                     | 1.93                 | 0                         | 10                           | 6     | 12         | 13                           | s.        |                                                                                                                            |
| Means and extremes.....              |                 | .....           | .....                   | 68.2                         | -4.5                      | 85      | 9     | 50     | 25    | 26                       | 6.38  | +1.81                     | 2.91                 | 0                         | 12                           | 10    | 10         | 11                           | s.        |                                                                                                                            |
| For the State.....                   |                 | .....           | .....                   | 67.1                         | -4.9                      | 89      | 7†    | 37     | 25    | 38                       | 8.55  | +3.48                     | 4.32                 | 0                         | 12                           | 11    | 9          | 11                           | sw.       |                                                                                                                            |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for August, 1927

| Stations                                   | Drainage Basin  | Day of month |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       | Total |      |
|--------------------------------------------|-----------------|--------------|------|-----|-----|-----|------|------|------|------|-----|----|-----|------|------|------|------|------|-----|-----|-----|------|-----|-----|----|----|------|------|------|------|-----|-------|-------|------|
|                                            |                 | 1            | 2    | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10  | 11 | 12  | 13   | 14   | 15   | 16   | 17   | 18  | 19  | 20  | 21   | 22  | 23  | 24 | 25 | 26   | 27   | 28   | 29   | 30  | 31    |       |      |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Belvidere.....                             | Delaware.....   | .14          | .56  |     |     |     |      | .04  | .37  | .60  |     |    |     | 1.35 | 1.53 |      |      | .76  |     |     |     |      |     | .28 |    |    |      | .02  | 1.64 | .47  | .06 |       |       | 7.82 |
| Charlotteburg.....                         | Passaic.....    | .79          | .31  |     |     | .07 |      | *    | .60  |      |     |    |     | .07  | .48  | 1.48 |      | .84  | .05 |     |     |      | .35 |     |    |    | .02  | 1.70 | .05  | 1.47 | .05 |       | 8.33  |      |
| Culvers Lake.....                          | Delaware.....   | .50          | .32  |     |     |     |      | T    | .85  | .10  |     |    |     | .11  | 1.97 | .02  |      | .42  | .02 |     |     |      | .42 |     |    |    | .01  | 1.81 | 1.04 | 1.59 |     |       | 9.18  |      |
| Dover.....                                 | Passaic.....    | .72          |      |     |     | .05 |      |      | 1.00 | .01  |     |    |     | *    | 1.80 |      |      | .71  |     |     |     |      | .25 |     |    |    | *    | 2.04 | 1.50 | .15  |     | .06   | 8.29  |      |
| Layton.....                                | Delaware.....   | .41          | .71  |     | .05 |     |      | .05  | .71  | .02  |     |    |     | .07  | 1.60 | .01  |      | .43  |     |     |     |      |     | .46 |    |    |      | .04  | 2.08 | 1.01 | .94 |       | 8.59  |      |
| Newton.....                                | Delaware.....   | .40          | .31  |     |     | .03 |      | .02  | .51  | .10  |     |    |     | .13  | 1.70 | .13  |      | .76  | .04 |     |     |      |     | .32 |    |    |      | .02  | 2.32 | .62  | .63 | .02   | 8.06  |      |
| Phillipsburg.....                          | do.....         | .93          |      |     |     |     |      | .04  | .28  | T    |     |    |     | .84  | .37  |      |      | .23  |     |     |     |      | T   | .49 |    |    | .17  | .65  | .19  | T    |     | 4.19  |       |      |
| Sussex.....                                | Hudson.....     | .37          | .58  |     |     |     |      |      |      |      |     |    |     |      |      |      |      | .46  |     |     |     |      |     | .22 |    |    |      | .17  |      | .03  |     | \$    |       |      |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Bergen Point**.....                        | Coast.....      | 1.86         |      |     |     | .04 |      |      | 3.03 | .44  |     |    |     | 1.17 |      |      | .97  |      |     |     |     |      | .23 |     |    |    | .49  | .79  | 1.08 | .07  |     |       | 10.17 |      |
| Boonton   .....                            | Passaic.....    | .27          | 1.27 |     |     | .12 |      |      | 1.10 |      |     |    |     | .09  | 3.85 |      | .13  | .59  |     |     |     |      | .28 | .05 |    |    | 1.37 | .10  | 1.88 | .12  |     |       | 11.22 |      |
| Chatham   .....                            | do.....         | .79          | 2.45 |     |     | .03 |      |      | 2.46 | T    |     |    |     | 1.77 |      |      | .13  | .52  |     |     |     | .22  |     |     |    |    | .59  | 1.06 | 1.64 | T    |     | 11.66 |       |      |
| Elizabeth.....                             | Coast.....      | 2.00         | .08  |     |     | .05 |      |      | 1.10 | 2.50 |     |    |     | 1.50 | .09  |      | .55  | T    |     |     |     | .34  |     |     |    |    | .05  | 1.16 | .42  | .42  |     |       | 10.26 |      |
| Flemington.....                            | Raritan.....    | 1.62         | .03  |     |     |     |      | .03  | .51  | 1.27 |     |    |     | .15  | .69  | .13  |      | .44  |     |     |     |      | .28 |     |    |    | .05  | 1.63 | .29  | .22  |     |       | 7.34  |      |
| Highwood.....                              | Hackensack..... | 2.34         |      |     |     | .06 |      |      | 1.65 | 1.44 |     |    |     | T    | 1.38 | .09  |      | 2.30 | T   |     |     | T    |     | .16 | T  |    | .09  | 1.20 | .59  | .38  |     |       | 11.68 |      |
| Jersey City.....                           | Coast.....      | 1.17         | T    |     |     | .04 |      |      | 1.56 | .85  |     |    |     | 1.10 |      |      | .96  |      |     | .01 |     |      | .11 |     |    |    | .12  | 1.35 | .29  | .35  |     |       | 7.91  |      |
| Lambertville.....                          | Delaware.....   | 2.71         | .28  |     |     | .04 | T    |      | .87  | 1.75 |     |    | .27 | .53  | .06  |      | .55  | .03  |     |     |     | .17  |     |     |    |    | .19  | 1.67 | .14  | .07  |     |       | 9.33  |      |
| Little Falls.    .....                     | Passaic.....    | .80          | 1.38 |     |     | .31 |      |      | 3.34 |      |     |    |     | 1.77 |      |      | .20  | .57  |     |     |     | .22  | .01 |     |    |    | 1.39 | .16  | .75  | .13  |     |       | 11.03 |      |
| New Brunswick.....                         | Raritan.....    | 1.59         | .06  |     |     | .11 |      |      | .80  | .09  |     |    |     | 1.45 | .15  |      | .81  |      |     | T   |     | .32  |     |     |    |    | .03  | 1.38 | .35  | .48  | T   |       | 9.62  |      |
| New Milford.**.....                        | Hackensack..... | 2.69         |      | .18 |     |     | 1.57 | .67  |      |      |     |    |     | 1.82 |      |      | .90  |      |     |     |     | .29  |     |     |    |    | .22  | 1.18 | 1.03 | .30  |     |       | 10.85 |      |
| Paterson.....                              | Passaic.....    | 1.65         | .03  |     | .02 |     |      | 1.67 | .83  |      |     |    | .02 | 1.20 | .62  |      | .80  | .02  |     |     |     | .22  |     |     |    | T  | 1.39 | .60  | .42  | .45  |     |       | 9.94  |      |
| Plainfield.....                            | Raritan.....    | 3.37         | .25  |     |     |     |      | 2.68 | 1.64 |      |     |    | .01 | 2.30 |      |      | .45  |      |     | T   |     | .22  |     |     |    | *  | 1.20 | .40  | .35  |      |     | 12.87 |       |      |
| Ridgefield.....                            | Hackensack..... | 1.78         |      |     | .05 |     |      | .97  | 2.44 |      |     |    | .01 | 1.13 |      |      | .77  |      |     | T   |     | .13  | .07 |     |    | *  | 1.22 | 1.00 | .13  |      |     | 9.70  |       |      |
| Somerville.....                            | Raritan.....    | 3.60         |      |     |     | T   |      | 1.41 | 1.53 |      |     |    |     | 1.08 | .15  |      | .52  |      |     |     |     | .17  |     |     |    | T  | 1.66 | .24  | .18  |      |     | 9.27  |       |      |
| South Orange.....                          | Rahway.....     |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Verona**.....                              | Passaic.....    | 2.13         |      |     |     | .06 |      | 3.47 | .06  |      |     |    | .04 | 1.51 |      |      | .84  | T    |     |     |     | .18  |     |     |    |    | .50  | .92  | .95  | 1.09 |     |       | 11.75 |      |
| Woodcliff Lake**.....                      | Hackensack..... | 1.62         |      |     | .63 |     |      | 1.38 | .22  |      |     |    |     | 2.54 |      |      | .81  |      |     | T   |     | .18  |     |     |    |    | .15  | 1.02 | 1.13 | .15  |     |       | 9.83  |      |
| New York, N. Y***.....                     | Coast.....      | 1.37         | T    |     | .03 |     |      | 2.42 | .37  |      |     |    |     | 1.09 |      |      | .94  |      |     | T   |     | .12  |     |     |    |    | .36  | .83  | .37  | .15  |     |       | 8.05  |      |
| <i>The Southern Interior.</i>              |                 |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Belleplain.....                            | Tuckahoe.....   | .50          |      |     | .11 |     |      |      | .33  |      |     |    |     | *    | .94  |      | .21  | .35  |     |     |     |      | .63 |     |    |    | *    | 1.82 | *    | .13  |     |       | 5.02  |      |
| Bridgeton.....                             | Coast.....      | .79          | .21  |     |     | .04 |      |      | .06  |      |     |    |     | .05  |      |      | 1.25 |      |     |     |     | .35  |     |     |    |    | 1.40 | .10  | .11  |      |     | 4.36  |       |      |
| Burlington.....                            | Delaware.....   | .95          |      |     |     | .03 |      |      | .84  | 1.52 |     |    |     | .64  | .74  |      | 2.10 |      |     | .03 |     | .32  |     |     |    |    | .03  | 1.33 | .10  | .03  | T   |       | 8.66  |      |
| Clayton.....                               | Delaware.....   |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Hammonton.....                             | Mullica.....    |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Hightstown.....                            | Raritan.....    | .72          | .12  |     |     |     |      | .72  | 1.96 |      |     |    |     | 2.12 |      |      | 1.28 |      |     |     |     | .55  |     |     |    |    |      | 1.40 | .16  | .14  |     |       | 9.17  |      |
| Imlaystown.....                            | Delaware.....   |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Indian Mills.....                          | Mullica.....    | .67          |      |     | .09 | .15 |      | .37  | 1.61 |      |     |    |     | 2.08 | .25  |      | 2.00 |      |     |     |     | .80  |     |     |    |    | .07  | 1.60 | .14  | .11  |     |       | 9.89  |      |
| Lakewood.....                              | Metedeconk..... | .55          | T    |     |     |     |      | .27  | 1.57 |      |     |    |     | .25  | 2.12 |      | 1.70 | .03  |     | .02 |     | .54  | .04 |     |    | T  | 1.38 | .24  | .32  |      |     | 9.03  |       |      |
| Moorestown.....                            | Delaware.....   | 1.16         |      |     | .07 |     |      | 3.10 | .25  |      |     |    |     | 1.01 | .60  |      | 1.28 |      |     |     |     | .47  |     |     |    |    | .23  | 1.50 | .18  |      |     | .38   | 10.23 |      |
| Northfield.....                            | Coast.....      | .80          |      |     | .15 |     |      | .28  |      |      |     |    |     | .10  |      |      | .25  | .27  |     |     |     | .19  |     |     |    |    | .28  | 2.07 | .05  |      |     |       | 4.44  |      |
| Pleasantville   .....                      | Coast.....      | .45          | .60  |     | .15 | .01 |      | T    | .30  |      |     |    |     | .45  |      |      | .64  | .01  |     |     |     | .12  | .01 |     |    |    | 2.65 | .03  | .01  |      |     |       | 5.43  |      |
| Riverton   .....                           | Delaware.....   | T            | .76  | T   |     | .03 | .03  | T    |      | 2.33 |     |    |     | .25  | .98  |      | .73  | 1.34 |     |     | T   |      | .09 | .09 |    |    |      | 1.68 | .05  | .18  | T   |       | 8.54  |      |
| Runyon.....                                | Coast.....      | 1.30         |      |     |     |     |      | .55  | 3.11 |      |     |    |     | 2.37 |      |      | 1.02 |      |     |     |     | .64  |     |     |    |    | .12  | 1.24 | .28  | .61  |     |       | 11.24 |      |
| Trenton**.....                             | Delaware.....   | 1.12         | T    |     |     | T   |      | 2.86 | .26  |      |     |    | .04 | 1.07 |      |      | .67  |      |     | T   |     | .25  |     |     |    |    | .87  | .69  | .05  | T    |     | .05   | 7.93  |      |
| Tuckerton.....                             | Coast.....      | .43          | .41  |     | .10 |     |      | .10  | .23  |      |     |    |     | .05  | .66  |      | .56  | .80  |     |     |     | .50  |     |     |    |    |      | 2.10 | .05  |      |     |       | 5.99  |      |
| Vineland.....                              | Maurice.....    | .80          |      |     |     | .06 |      | *    | *    |      |     |    |     | *    | *    |      | 1.03 |      |     |     |     | 1.02 |     |     |    |    |      | 1.89 | .11  |      |     |       | 4.91  |      |
| Phila., Pa***.....                         | Delaware.....   | .79          | .01  |     |     | .11 |      | 1.53 | .18  |      | .05 |    |     | .82  |      |      | 1.54 |      |     | T   |     | .10  |     |     |    |    | 1.17 | .73  | .15  | .09  | T   |       | 7.27  |      |
| <i>The Sea Coast.</i>                      |                 |              |      |     |     |     |      |      |      |      |     |    |     |      |      |      |      |      |     |     |     |      |     |     |    |    |      |      |      |      |     |       |       |      |
| Asbury Park.....                           | Coast.....      | .85          | .25  |     |     |     |      | .15  | 1.50 |      |     |    |     | .70  | 1.95 |      | 1.80 |      |     | .05 |     |      | .70 | .15 |    |    | .05  | 1.35 | .50  |      |     |       | 10.00 |      |
| Atlantic City***.....                      | do.....         | .76          |      | T   | .12 | T   |      | T    | .11  |      |     |    |     | .24  | .38  |      | .48  | .04  |     |     | .01 |      | .27 |     |    |    | 2.43 | .48  | .02  |      |     |       | 5.34  |      |
| Cape May City.....                         | do.....         | .33          |      | T   | .20 |     |      | .37  | T    | .01  |     |    |     | .25  | .23  |      | .37  | .52  | T   |     | .01 |      | .09 |     |    |    | .28  | .13  | .01  | .08  |     |       | 2.88  |      |
| Sandy Hook***.....                         | do.....         | .71          | T    |     | T   |     |      | 1.28 | .65  |      |     |    |     | 1.27 |      |      | .78  |      |     | T   |     | .47  |     |     |    |    | .36  | .60  | 1.17 | .01  |     |       | 7.30  |      |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|---------------|
|                       | Monthly mean | Highest | Date | Lowest | Late | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m |               |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |               |
| Atlantic City.....    | 29.99        | 30.24   | 22   | 29.69  | 24   | 14.1            | 62             | ne.       | 26   | 84                                     | 76                                        | 83                                      | 54            |
| New York, N. Y.....   | 30.00        | 30.31   | 26   | 29.70  | 24   | 12.6            | 54             | sw.       | 8    | 79                                     | 67                                        | 75                                      | 56            |
| Philadelphia, Pa..... | 30.01        | 30.28   | 26   | 29.78  | 9    | 7.6             | 33             | ne.       | 26   | 84                                     | 70                                        | 78                                      | 55            |
| Ridgefield.....       | 30.00        | 30.32   | 26   | 29.70  | 24   |                 |                |           |      |                                        |                                           |                                         |               |
| Riverton.....         |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Sandy Hook.....       |              |         |      |        |      |                 |                |           |      |                                        |                                           |                                         |               |
| Trenton.....          | 29.98        | 30.29   | 26   | 29.68  | 24   | 12.6            | 50             | ne.       | 27   | 85                                     | 65                                        | 83                                      | 53            |
| Verona.....           | 29.99        | 30.30   | 26   | 29.74  | 9    | 8.1             | 32             | w.        | 8    | 82                                     | 63                                        | 75                                      | 53            |
|                       | 30.01        | 30.32   | 26   | 29.74  | 24   | 4.2             | 29             | sw.       | 8    | 82                                     | 65                                        | 80                                      | 55            |



## Daily Temperatures for August, 1927

| Stations                             | 1            | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean              |       |      |
|--------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|------|
| The Highlands and Kittatinny Valley. |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |      |
| Belvidere.....                       | Maximum..... | 79    | 79    | 80    | 85    | 86    | 84    | 88    | 85    | 83    | 82    | 84    | 86    | 87    | 73    | 77    | 81    | 84    | 73    | 82    | 77    | 82    | 83    | 81    | 77    | 77    | 69    | 62    | 64    | 74    | 78    | 84                | 79.5  |      |
|                                      | Minimum..... | 67    | 59    | 45    | 52    | 56    | 52    | 56    | 62    | 69    | 49    | 53    | 57    | 60    | 59    | 60    | 47    | 53    | 55    | 56    | 57    | 55    | 62    | 65    | 61    | 44    | 53    | 51    | 56    | 59    | 53    | 58                | 56.2  |      |
| Charlotteburg.....                   | Maximum..... | 82    | 79    | 76    | 80    | 80    | 80    | 83    | 83    | 80    | 78    | 83    | 80    | 83    | 80    | 78    | 75    | 78    | 70    | 76    | 75    | 78    | 79    | 78    | 75    | 80    | 75    | 62    | 63    | 73    | 75    | 80                | 77.3  |      |
|                                      | Minimum..... | 58    | 59    | 45    | 43    | 53    | 47    | 48    | 49    | 60    | 47    | 47    | 48    | 50    | 46    | 60    | 45    | 46    | 52    | 52    | 48    | 49    | 54    | 61    | 62    | 55    | 39    | 42    | 40    | 58    | 45    | 49                | 50.1  |      |
| Dover.....                           | Maximum..... | 79    | 77    | 75    | 81    | 81    | 78    | 82    | 79    | 81    | 81    | 80    | 82    | 82    | 72    | 75    | 75    | 79    | 65    | 74    | 72    | 73    | 76    | 71    | 76    | 66    | 57    | 62    | 73    | 74    | 78    | 75.2              |       |      |
|                                      | Minimum..... | 67    | 57    | 47    | 51    | 56    | 57    | 57    | 59    | 60    | 50    | 51    | 55    | 62    | 60    | 52    | 48    | 55    | 59    | 56    | 55    | 54    | 58    | 64    | 54    | 43    | 53    | 50    | 57    | 57    | 59    | 50                | 55.3  |      |
| Layton.....                          | Maximum..... | 78    | 74    | 73    | 80    | 81    | 80    | 81    | 82    | 78    | 78    | 75    | 81    | 76    | 76    | 71    | 75    | 77    | 60    | 79    | 77    | 80    | 80    | 81    | 71    | 76    | 69    | 58    | 62    | 67    | 74    | 75                | 75.1  |      |
|                                      | Minimum..... | 62    | 57    | 40    | 48    | 53    | 50    | 52    | 60    | 62    | 44    | 50    | 52    | 58    | 52    | 60    | 42    | 48    | 53    | 50    | 53    | 50    | 58    | 63    | 57    | 40    | 48    | 50    | 54    | 56    | 51    | 58                | 52.6  |      |
| Newton.....                          | Maximum..... | 80    | 78    | 76    | 80    | 80    | 78    | 83    | 83    | 81    | 78    | 80    | 81    | 81    | 73    | 73    | 75    | 77    | 61    | 78    | 75    | 78    | 81    | 78    | 71    | 74    | 68    | 61    | 62    | 74    | 75    | 81                | 75.9  |      |
|                                      | Minimum..... | 66    | 58    | 45    | 50    | 59    | 53    | 57    | 62    | 65    | 49    | 52    | 54    | 60    | 58    | 60    | 48    | 54    | 53    | 54    | 55    | 54    | 65    | 63    | 55    | 44    | 53    | 49    | 54    | 57    | 50    | 59                | 55.3  |      |
| Phillipsburg.....                    | Maximum..... | 75    | 75    | 72    | 76    | 78    | 77    | 83    | 81    | 81    | 76    | 78    | 81    | 81    | 71    | 68    | 75    | 80    | 65    | 73    | 73    | 75    | 79    | 74    | 69    | 74    | 59    | 58    | 63    | 75    | 69    | 76                | 73.9  |      |
|                                      | Minimum..... | 65    | 60    | 49    | 54    | 58    | 54    | 59    | 63    | 63    | 50    | 53    | 60    | 60    | 60    | 55    | 59    | 52    | 56    | 58    | 58    | 57    | 63    | 66    | 55    | 45    | 54    | 53    | 38    | 58    | 53    | 59                | 56.4  |      |
| Sussex.....                          | Maximum..... | 80    | 76    | 77    | 82    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 63    | 79    | 77    | 79    | 83    | 80    | 76    | 75    | ..... | ..... | ..... | 51    | 52    | .....             | ..... |      |
|                                      | Minimum..... | 65    | 59    | 44    | 47    | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 53    | 55    | 55    | 51    | 57    | 63    | 53    | 42    | ..... | ..... | ..... | ..... | ..... | .....             | ..... |      |
| The Red Sandstone Plain.             |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |      |
| Bergen Point.....                    | Maximum..... | 83    | 82    | 76    | 76    | 76    | 80    | 83    | 82    | 79    | 83    | 78    | 78    | 83    | 75    | 76    | 77    | 82    | 72    | 73    | 75    | 73    | 75    | 74    | 71    | ..... | 67    | 61    | 65    | ..... | ..... | 76.1 <sup>d</sup> |       |      |
|                                      | Minimum..... | 68    | 63    | 55    | 56    | 60    | 61    | 63    | 68    | 71    | 56    | 58    | 56    | 62    | 65    | 64    | 54    | 58    | 56    | 58    | 59    | 62    | 61    | 66    | 62    | 51    | 59    | 52    | 59    | 62    | 57    | 59                | 60.0  |      |
| Boonton§§.....                       | Maximum..... | 83    | 78    | 76    | 81    | 82    | 79    | 82    | 82    | 81    | 79    | 78    | 80    | 82    | 81    | 74    | 75    | 79    | 60    | 77    | 77    | 77    | 76    | 79    | 72    | 77    | 66    | 60    | 65    | 74    | 75    | 80                | 76.4  |      |
|                                      | Minimum..... | 65    | 63    | 47    | 50    | 53    | 51    | 55    | 60    | 65    | 51    | 51    | 54    | 57    | 59    | 61    | 47    | 54    | 44    | 55    | 52    | 53    | 56    | 62    | 64    | 44    | 52    | 51    | 52    | 58    | 50    | 53                | 54.5  |      |
| Elizabeth.....                       | Maximum..... | 83    | 81    | 76    | 78    | 84    | 80    | 83    | 83    | 84    | 81    | 80    | 79    | 84    | 77    | 72    | 71    | 82    | 72    | 75    | 77    | 74    | 77    | 75    | 76    | 78    | 68    | 65    | 64    | 72    | 79    | 83                | 77.2  |      |
|                                      | Minimum..... | 67    | 60    | 48    | 53    | 56    | 54    | 59    | 64    | 67    | 51    | 55    | 58    | 59    | 63    | 62    | 49    | 54    | 57    | 57    | 56    | 59    | 58    | 64    | 62    | 46    | 52    | 52    | 58    | 62    | 53    | 55                | 57.1  |      |
| Flemington.....                      | Maximum..... | 81    | 77    | 75    | 84    | 83    | 83    | 82    | 84    | 83    | 83    | 80    | 85    | 85    | 76    | 75    | 67    | 75    | 75    | 78    | 73    | 80    | 77    | 77    | 74    | 78    | 68    | 60    | 64    | 76    | 79    | 81                | 77.4  |      |
|                                      | Minimum..... | 67    | 62    | 51    | 55    | 57    | 55    | 61    | 62    | 71    | 54    | 55    | 61    | 60    | 62    | 63    | 50    | 55    | 57    | 58    | 56    | 58    | 60    | 66    | 63    | 45    | 56    | 52    | 57    | 60    | 51    | 56                | 57.9  |      |
| Highwood.....                        | Maximum..... | 79    | 76    | 76    | 77    | 79    | 76    | 79    | 78    | 79    | 76    | 75    | 75    | 80    | 75    | 73    | 73    | 76    | 65    | 71    | 72    | 70    | 73    | 73    | 73    | 72    | 66    | 60    | 64    | 72    | 73    | 75                | 73.6  |      |
|                                      | Minimum..... | 67    | 61    | 48    | 52    | 58    | 53    | 56    | 62    | 64    | 50    | 57    | 54    | 60    | 62    | 60    | 57    | 55    | 55    | 57    | 55    | 59    | 59    | 64    | 58    | 46    | 55    | 52    | 58    | 59    | 52    | 58                | 56.9  |      |
| Jersey City.....                     | Maximum..... | 85    | 81    | 74    | 78    | 83    | 80    | 83    | 84    | 83    | 80    | 80    | 79    | 84    | 82    | 78    | 78    | 77    | 83    | 73    | 73    | 76    | 77    | 74    | 76    | 77    | 76    | 67    | 61    | 66    | 77    | 80                | 79    | 77.5 |
|                                      | Minimum..... | 66    | 60    | 56    | 60    | 61    | 63    | 65    | 69    | 62    | 58    | 61    | 64    | 64    | 67    | 61    | 57    | 60    | 57    | 59    | 62    | 62    | 63    | 65    | 57    | 55    | 57    | 53    | 58    | 62    | 59    | 62                | 60.8  |      |
| Lambertville.....                    | Maximum..... | 81    | 76    | 70    | 80    | 80    | 81    | 84    | 84    | 79    | 78    | 89    | 81    | 82    | 75    | 73    | 74    | 80    | 66    | 73    | 74    | 77    | 76    | 73    | 78    | 65    | 58    | 63    | 75    | 73    | 81    | 75.7              |       |      |
|                                      | Minimum..... | 64    | 61    | 50    | 57    | 61    | 58    | 60    | 64    | 66    | 53    | 55    | 61    | 60    | 65    | 63    | 51    | 55    | 56    | 56    | 57    | 57    | 61    | 66    | 56    | ..... | 56    | 55    | 67    | 60    | 57    | 56                | 58.5  |      |
| Little Falls§§.....                  | Maximum..... | 83    | 80    | 78    | 79    | 83    | 81    | 84    | 83    | 83    | 81    | 80    | 80    | 85    | 77    | 77    | 76    | 80    | 62    | 79    | 77    | 75    | 78    | 75    | 79    | 67    | 65    | 66    | 76    | 78    | 82    | 77.5              |       |      |
|                                      | Minimum..... | 68    | 60    | 47    | 52    | 56    | 52    | 56    | 61    | 67    | 51    | 54    | 55    | 58    | 61    | 61    | 50    | 55    | 55    | 57    | 54    | 56    | 56    | 57    | 62    | 46    | 54    | 52    | 53    | 61    | 51    | 55                | 55.9  |      |
| New Brunswick.....                   | Maximum..... | 81    | 79    | 74    | 78    | 83    | 79    | 84    | 86    | 81    | 77    | 78    | 80    | 82    | 78    | 74    | 75    | 81    | 75    | 75    | 75    | 72    | 73    | 73    | 73    | 75    | 73    | 61    | 64    | 75    | 78    | 79                | 76.4  |      |
|                                      | Minimum..... | 68    | 62    | 49    | 55    | 60    | 56    | 56    | 64    | 71    | 51    | 55    | 58    | 60    | 63    | 64    | 55    | 59    | 57    | 57    | 56    | 60    | 59    | 66    | 64    | 47    | 57    | 53    | 58    | 61    | 55    | 57                | 58.5  |      |
| Paterson.....                        | Maximum..... | 81    | 79    | 77    | 77    | 84    | 80    | 81    | 82    | 81    | 80    | 79    | 79    | 84    | 76    | 76    | 76    | 80    | 76    | 72    | 75    | 74    | 73    | 73    | 75    | 75    | 66    | 65    | 66    | 73    | 75    | 78                | 76.4  |      |
|                                      | Minimum..... | 69    | 62    | 52    | 55    | 60    | 58    | 61    | 65    | 70    | 53    | 57    | 58    | 62    | 63    | 63    | 52    | 57    | 57    | 57    | 57    | 64    | 60    | 65    | 65    | 51    | 57    | 53    | 59    | 63    | 55    | 58                | 59.3  |      |
| Plainfield.....                      | Maximum..... | 82    | 80    | 74    | 77    | 84    | 80    | 84    | 82    | 80    | 80    | 80    | 85    | 84    | 78    | 77    | 82    | 68    | 75    | 76    | 78    | 74    | 76    | 76    | 76    | 76    | 67    | 63    | 64    | 77    | 80    | 80                | 77.4  |      |
|                                      | Minimum..... | 67    | 61    | 49    | 53    | 54    | 53    | 57    | 60    | 60    | 52    | 52    | 56    | 56    | 61    | 61    | 47    | 52    | 56    | 56    | 53    | 56    | 57    | 64    | 53    | 45    | 56    | 52    | 58    | 60    | 52    | 60                | 55.8  |      |
| Ridgefield.....                      | Maximum..... | 80    | 79    | 78    | 80    | 82    | 79    | 82    | 79    | 83    | 79    | 78    | 82    | 78    | 76    | 76    | 75    | 79    | 60    | 74    | 74    | 73    | 75    | 74    | 74    | 76    | 67    | 59    | 64    | 75    | 78    | 79                | 75.7  |      |
|                                      | Minimum..... | 66    | 56    | 50    | 54    | 60    | 55    | 58    | 64    | 58    | 52    | 55    | 55    | 62    | 65    | 56    | 50    | 57    | 57    | 56    | 60    | 60    | 65    | 53    | 48    | 56    | 53    | 58    | 62    | 55    | 60    | 57.2              |       |      |
| Somerville.....                      | Maximum..... | 84    | 80    | 77    | 82    | 86    | 83    | 88    | 85    | 84    | 82    | 85    | 88    | 79    | 78    | 79    | 84    | 75    | 78    | 79    | 74    | 73    | 78    | 76    | 79    | 73    | 64    | 65    | 77    | 80    | 83    | 79.3              |       |      |
|                                      | Minimum..... | 68    | 61    | 48    | 53    | 55    | 50    | 58    | 61    | 71    | 50    | 53    | 57    | 58    | 63    | 62    | 45    | 50    | 57    | 58    | 53    | 53    | 57    | 65    | 64    | 44    | 55    | 53    | 59    | 60    | 50    | 55                | 56.3  |      |
| South Orange.....                    | Maximum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | ..... |      |
|                                      | Minimum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | ..... |      |
| Verona.....                          | Maximum..... | 80    | 77    | 72    | 75    | 80    | 75    | 79    | 80    | 79    | 74    | 75    | 76    | 80    | 73    | 72    | 76    | 70    | 70    | 72    | 70    | 71    | 74    | 71    | 72    | 64    | 58    | 63    | 72    | 74    | 77    | 73.3              |       |      |
|                                      | Minimum..... | 66    | 62    | 49    | 53    | 60    | 55    | 60    | 65    | 64    | 52    | 55    | 57    | 62    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |      |



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U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXII.

SEPTEMBER, 1927.

No. 9

### GENERAL SUMMARY.

The very generally disagreeable weather of August continued through the first day of September, when a marked change occurred to fair and moderately warm conditions. After the rain of the 1st, there was practically none of importance during the remainder of the month, except for a heavy storm on the 18-19th. This was of course attended by an excess of sunshine and clear skies. The temperature was about equally divided as to frequency and amount of variation above and below normal, so that the month as a whole was one of the most pleasant and favorable for out-of-door pursuits of any during the warmer season of this year. From the 20th to 27th inclusive a period of almost continuously clear and moderately cool weather prevailed. Only in September 1914 and 1916 has there been a larger number of clear days than in September of this year. The weather was especially favorable for the maturity of crops, some of which, because of unfavorable earlier growing weather, seemed not likely to reach full fruition before early frosts. The few occurrences of early frost were not far from their normal date, but were somewhat more restricted in area than usual, and were very generally without much damage.

No storm warnings were displayed during the month.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 36 stations, was 65.6°, which was 0.1° above normal. The highest temperature was 97° at Runyon on the 15th, and the lowest, 29°, at Charlotteburg on the 25th. The greatest daily range of temperature was 46° at Charlotteburg on the 25-26th. The highest monthly mean temperature was 68.8° at Vineland, and the lowest, 61.9° at Charlotteburg.

The temperature departure from the normal for the year, 1927, to date, by sections, is: The Highlands, -0.3°; Red Sandstone Plain, -0.7°; Southern Interior, -0.4°; Sea Coast, -0.1°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 2.66 inches, which was 1.17 inches below normal.

The greatest monthly precipitation was 5.03 inches, at Little Falls, and the least, 0.65 inch at Phillipsburg. The greatest amount of precipitation in any 24 consecutive hours was 4.48 inches at Little Falls on the 1st. The mean of the number of days on which 0.01 inch or more of precipitation fell was 5, or 3 less than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, -2.60 inches; Red Sandstone Plain, +0.20 inch; Southern Interior, -5.25 inches; Sea Coast, -4.57 inches.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 10 miles per hour, which was 2 miles

below normal. The highest velocity, sustained for 5 consecutive minutes, was 47 miles per hour from the north at Sandy Hook on the 1st. High winds also occurred on the 30th.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 19, which was 4 more than normal; partly cloudy, 6, or 2 less than normal; cloudy, 5, or 2 less than normal. The percent of possible sunshine was 70, which was 2 per cent above normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.02 inches, which was 0.05 inch below normal. The highest reading was 30.44 inches at Verona on the 28th, and the lowest 29.50 inches at Trenton and Verona on the 9th and 11th respectively.

The mean stage of the Delaware River at Phillipsburg was 2.9 feet; and the highest, 9.7 feet on the 3d. At Trenton the mean stage was 1.8 feet, which was 0.7 foot above normal. The highest stage, 5.1 feet, occurred on the 3d.

Thunderstorms occurred on the 2d, 10th, 11th, 14th, 15th, 18th, 19th and 20th. Dense fog was noted on the 3d, 4th, 16th, 17th, 21st, 26th and 29th. Solar halos were observed on the 7th, 8th, 14th and 21st. Light frost occurred on the 24th and 25th at some of the following places: Bridgeton, Charlotteburg, Dover, Layton and Runyon and temperatures dropped below freezing at Charlotteburg, Belleplain and Runyon.

### COMPARATIVE DATA FOR SEPTEMBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 64.2        | 93      | 38     | 0.83          | 1.69     | 0.25  | .....       | .....         | .....  | .....                  |
| 1886..... | 66.9        | 95      | 36     | 1.13          | 1.76     | 0.86  | .....       | .....         | .....  | .....                  |
| 1887..... | 61.6        | 90      | 30     | 3.66          | 6.25     | 1.62  | .....       | .....         | .....  | 7                      |
| 1888..... | 63.1        | 84      | 29     | 7.09          | 10.65    | 3.75  | .....       | .....         | 14     | 12                     |
| 1889..... | 64.8        | 90      | 34     | 8.36          | 13.13    | 3.17  | .....       | .....         | 14     | 14                     |
| 1890..... | 64.4        | 91      | 33     | 4.75          | 8.61     | 2.59  | 10          | 10            | 10     | 10                     |
| 1891..... | 68.7        | 95      | 39     | 2.46          | 5.91     | 0.90  | 16          | 9             | 5      | 6                      |
| 1892..... | 64.2        | 90      | 33     | 1.81          | 3.78     | 1.02  | 15          | 11            | 4      | 6                      |
| 1893..... | 62.7        | 90      | 31     | 3.20          | 5.38     | 1.93  | 12          | 10            | 8      | 8                      |
| 1894..... | 68.8        | 97      | 31     | 7.46          | 11.65    | 3.69  | 10          | 10            | 10     | 8                      |
| 1895..... | 69.7        | 109     | 29     | 1.07          | 2.71     | 0.22  | 17          | 10            | 3      | 5                      |
| 1896..... | 65.1        | 95      | 30     | 4.37          | 8.74     | 2.26  | 19          | 7             | 4      | 5                      |
| 1897..... | 65.5        | 99      | 30     | 1.65          | 3.97     | 0.21  | 19          | 7             | 4      | 5                      |
| 1898..... | 68.6        | 100     | 31     | 2.00          | 3.87     | 0.65  | 17          | 8             | 5      | 6                      |
| 1899..... | 64.4        | 93      | 30     | 5.88          | 9.61     | 2.88  | 15          | 9             | 6      | 9                      |
| 1900..... | 69.9        | 98      | 32     | 2.86          | 7.37     | 1.09  | 14          | 10            | 6      | 6                      |
| 1901..... | 66.8        | 94      | 29     | 3.38          | 6.82     | 1.63  | 15          | 9             | 6      | 10                     |
| 1902..... | 64.6        | 93      | 30     | 5.65          | 8.95     | 3.11  | 11          | 7             | 12     | 13                     |
| 1903..... | 65.0        | 92      | 29     | 3.34          | 7.10     | 1.39  | 17          | 8             | 5      | 7                      |
| 1904..... | 64.8        | 93      | 23     | 4.79          | 10.08    | 0.89  | 14          | 10            | 6      | 7                      |
| 1905..... | 65.4        | 90      | 28     | 5.23          | 9.18     | 2.87  | 16          | 7             | 7      | 8                      |
| 1906..... | 68.9        | 94      | 33     | 2.19          | 4.66     | 0.75  | 15          | 9             | 6      | 7                      |
| 1907..... | 67.1        | 92      | 31     | 8.08          | 12.95    | 3.55  | 10          | 8             | 12     | 14                     |
| 1908..... | 65.7        | 90      | 29     | 2.09          | 4.13     | 0.95  | 11          | 10            | 9      | 3                      |
| 1909..... | 64.5        | 89      | 30     | 3.30          | 4.58     | 2.08  | 11          | 10            | 9      | 8                      |
| 1910..... | 67.3        | 97      | 32     | 2.39          | 3.97     | 1.01  | 12          | 10            | 8      | 6                      |
| 1911..... | 66.4        | 90      | 30     | 2.88          | 5.33     | 1.08  | 10          | 12            | 8      | 9                      |
| 1912..... | 65.9        | 87      | 28     | 4.47          | 6.76     | 2.68  | 12          | 7             | 11     | 10                     |
| 1913..... | 64.4        | 96      | 27     | 3.87          | 6.55     | 1.56  | 13          | 8             | 9      | 9                      |
| 1914..... | 64.0        | 99      | 24     | 0.37          | 1.64     | 0.14  | 21          | 6             | 3      | 3                      |
| 1915..... | 68.5        | 97      | 30     | 2.08          | 4.46     | 0.55  | 17          | 9             | 4      | 5                      |
| 1916..... | 65.2        | 98      | 31     | 2.84          | 5.29     | 1.29  | 20          | 7             | 3      | 6                      |
| 1917..... | 61.5        | 87      | 27     | 2.74          | 6.13     | 0.47  | 16          | 7             | 7      | 6                      |
| 1918..... | 62.2        | 90      | 29     | 3.84          | 6.00     | 2.66  | 14          | 8             | 8      | 9                      |
| 1919..... | 65.8        | 96      | 32     | 3.26          | 6.28     | 1.04  | 16          | 6             | 8      | 8                      |
| 1920..... | 66.8        | 90      | 30     | 3.87          | 8.53     | 1.67  | 17          | 8             | 5      | 7                      |
| 1921..... | 70.2        | 99      | 36     | 2.35          | 5.04     | 0.80  | 15          | 8             | 7      | 8                      |
| 1922..... | 66.7        | 95      | 27     | 2.26          | 5.22     | 0.59  | 19          | 5             | 6      | 4                      |
| 1923..... | 67.0        | 90      | 28     | 3.78          | 6.26     | 2.24  | 14          | 8             | 8      | 7                      |
| 1924..... | 62.2        | 99      | 29     | 5.42          | 8.44     | 2.47  | 13          | 8             | 9      | 10                     |
| 1925..... | 67.8        | 96      | 25     | 2.92          | 5.81     | 0.64  | 11          | 11            | 8      | 7                      |
| 1926..... | 64.5        | 93      | 32     | 4.18          | 7.09     | 1.53  | 14          | 6             | 10     | 10                     |
| 1927..... | 65.6        | 97      | 29     | 2.66          | 5.03     | 0.65  | 19          | 6             | 5      | 5                      |



## Climatological Data for September, 1927

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       |            | Prevailing direction of wind | Observers |                                                                                                                            |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------|------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 0.1 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                     |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Belvidere.....                              | Warren.....     | 289             | 36                      | 66.2                         | +1.5                      | 94      | 15   | 36     | 24   | 42                       | 1.32  | -2.45                     | 0.85                 | 0                         | 3                            | 23    | 2          | 5                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                          |
| Charlotteburg..                             | Passaic.....    | 719             | 35                      | 61.9                         | 0.0                       | 89      | 15   | 29     | 25   | 46                       | 2.88  | -1.54                     | 2.21                 | 0                         | 7                            | 5     | 13         | 12                           | w.        |                                                                                                                            |
| Culvers Lake..                              | Sussex.....     | 848             | 26                      | 63.2                         | .....                     | 90      | 15   | 40     | 25   | .....                    | 1.73  | -2.81                     | 1.10                 | 0                         | 4                            | 20    | 4          | 6                            | n.        |                                                                                                                            |
| Dover.....                                  | Morris.....     | 600             | 43                      | 63.2                         | +1.0                      | 90      | 15   | 35     | 25   | 38                       | 1.60  | -2.49                     | 0.87                 | 0                         | 6                            | 10    | 14         | 6                            | .....     |                                                                                                                            |
| Layton.....                                 | Sussex.....     | 480             | 26                      | 62.6                         | +0.3                      | 89      | 15   | 35     | 24   | 39                       | 2.33  | -1.59                     | 2.01                 | 0                         | 3                            | 17    | 5          | 8                            | sw.       | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                       |
| Newton.....                                 | Sussex.....     | 769             | 43                      | 63.9                         | +0.4                      | 90      | 15   | 39     | 25   | 36                       | 1.66  | -2.15                     | 0.90                 | 0                         | 5                            | 19    | 5          | 6                            | sw.       |                                                                                                                            |
| Phillipsburg..                              | Warren.....     | 363             | 44                      | 64.4                         | -0.8                      | 90      | 15   | 39     | 24   | 35                       | 0.65  | -3.01                     | 0.38                 | 0                         | 3                            | 24    | 6          | 0                            | .....     |                                                                                                                            |
| Sussex.....                                 | Sussex.....     | 442             | 32                      | 63.1                         | -1.1                      | 90      | 15   | 33     | 25   | 44                       | 2.58  | -1.32                     | 1.40                 | 0                         | 6                            | 19    | 6          | 5                            | w.        |                                                                                                                            |
| Means and extremes...                       |                 |                 |                         | 63.6                         | +0.2                      | 94      | 15   | 29     | 25   | 46                       | 1.84  | -2.17                     | 2.21                 | 0                         | 5                            | 17    | 7          | 6                            | sw.       |                                                                                                                            |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Bergen Point..                              | Hudson.....     | 37              | 30                      | 67.2                         | +0.8                      | 92      | 15   | 47     | 26   | 32                       | 3.87  | +0.34                     | 3.21                 | 0                         | 5                            | 12    | 15         | 3                            | sw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                           |
| Boonton.....                                | Morris.....     | 400             | 37                      | 62.7                         | -0.9                      | 91      | 15   | 34     | 25   | 39                       | 2.28  | -1.85                     | 1.66                 | 0                         | 4                            | 17    | 0          | 13                           | sw.       |                                                                                                                            |
| Chatham.....                                | Morris.....     | 185             | 23                      | 66.0                         | .....                     | 90      | 15   | 39     | 25   | 40                       | 2.47  | -1.82                     | 1.94                 | 0                         | 4                            | 25    | 4          | 1                            | .....     |                                                                                                                            |
| Elizabeth.....                              | Union.....      | 45              | 48                      | 66.0                         | -0.7                      | 94      | 15   | 39     | 25   | 40                       | 2.83  | -0.94                     | 2.19                 | 0                         | 6                            | 22    | 5          | 3                            | ne.       |                                                                                                                            |
| Flemington.....                             | Hunterdon ..... | 140             | 41                      | 66.0                         | -0.3                      | 95      | 15   | 38     | 25   | 40                       | 1.08  | -2.82                     | 0.57                 | 0                         | 3                            | 23    | 3          | 4                            | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                           |
| Highwood..                                  | Bergen.....     | 90              | 39                      | 62.9                         | -0.8                      | 89      | 15   | 38     | 25   | 34                       | 4.24  | +0.32                     | 3.66                 | 0                         | 3                            | 17    | 5          | 8                            | sw.       |                                                                                                                            |
| Jersey City..                               | Hudson.....     | 10              | 29                      | 65.4                         | +1.2                      | 94      | 15   | 50     | 24   | 33                       | 4.11  | +0.76                     | 3.49                 | 0                         | 5                            | 13    | 13         | 4                            | sw.       |                                                                                                                            |
| Lambertville..                              | Hunterdon ..... | 370             | 40                      | 65.6                         | -0.2                      | 91      | 15   | 44     | 24   | 40                       | 1.22  | -2.67                     | 0.67                 | 0                         | 4                            | 23    | 2          | 5                            | sw.       |                                                                                                                            |
| Little Falls..                              | Passaic.....    | 180             | 24                      | 65.2                         | +1.1                      | 93      | 15   | 40     | 24   | 39                       | 5.03  | +1.45                     | 4.48                 | 0                         | 4                            | 18    | 6          | 6                            | nw        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.       |
| New Brunswick..                             | Middlesex.....  | 110             | 74                      | 66.1                         | +0.5                      | 93      | 15   | 40     | 25   | 35                       | 2.18  | -1.42                     | 1.28                 | 0                         | 4                            | 22    | 4          | 4                            | n.        |                                                                                                                            |
| New Milford..                               | Bergen.....     | 9               | 9                       | 66.1                         | .....                     | 90      | 15   | 44     | 25   | 30                       | 4.42  | +0.33                     | 3.83                 | 0                         | 4                            | 23    | 4          | 3                            | .....     |                                                                                                                            |
| Paterson.....                               | Passaic.....    | 80              | 66                      | 66.1                         | -0.1                      | 90      | 15   | 44     | 25   | 30                       | 4.46  | +0.33                     | 3.98                 | 0                         | 3                            | 23    | 4          | 3                            | nw        |                                                                                                                            |
| Plainfield.....                             | Union.....      | 120             | 39                      | 65.4                         | -0.2                      | 94      | 15   | 37     | 25   | 38                       | 2.27  | -2.10                     | 1.50                 | 0                         | 5                            | 15    | 11         | 4                            | sw.       |                                                                                                                            |
| Ridgefield.....                             | Bergen.....     | 80              | 10                      | 65.4                         | .....                     | 91      | 15   | 40     | 25   | 37                       | 4.57  | .....                     | 4.00                 | 0                         | 3                            | 15    | 9          | 6                            | s.        | George P. Kirsten.<br>H. B. TenEyck.<br>T. R. Fenner.<br>Luther Davis.<br>Hackensack Water Co.                             |
| Somerville.....                             | Somerset.....   | 70              | 44                      | 66.1                         | +0.1                      | 95      | 15   | 36     | 25   | 43                       | 1.16  | -2.49                     | 1.04                 | 0                         | 3                            | 24    | 4          | 2                            | w.        |                                                                                                                            |
| South Orange..                              | Essex.....      | 200             | 57                      | 66.8                         | .....                     | 88      | 15   | 42     | 25   | 29                       | 4.30  | .....                     | 3.77                 | 0                         | 4                            | 16    | 6          | 8                            | sw.       |                                                                                                                            |
| Verona.....                                 | Essex.....      | 490             | 1                       | 63.8                         | .....                     | 88      | 15   | 42     | 25   | 29                       | 4.30  | .....                     | 3.77                 | 0                         | 4                            | 16    | 6          | 8                            | sw.       |                                                                                                                            |
| Woodcliff Lake..                            | Bergen.....     | 100             | 9                       | 66.8                         | 0.0                       | 90      | 15   | 50     | 24   | 28                       | 3.79  | .....                     | 3.35                 | 0                         | 4                            | ..... | .....      | .....                        | .....     |                                                                                                                            |
| New York, N. Y.....                         |                 | 365             | 57                      | 66.8                         | 0.0                       | 90      | 15   | 50     | 24   | 28                       | 3.84  | +0.25                     | 3.31                 | 0                         | 5                            | 11    | 13         | 6                            | sw.       | U. S. Weather Bureau.                                                                                                      |
| Means and extremes...                       |                 |                 |                         | 65.5                         | 0.0                       | 95      | 15   | 34     | 25   | 43                       | 3.19  | -0.99                     | 4.48                 | 0                         | 4                            | 19    | 6          | 5                            | sw.       |                                                                                                                            |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Belleplain.....                             | Cape May.....   | 30              | 33                      | 66.8                         | .....                     | 93      | 15   | 31     | 25   | 37                       | 2.02  | -1.29                     | 0.69                 | 0                         | 6                            | 15    | 10         | 5                            | sw.       | Thomas J. Durell.<br>Paul T. Kornmau.<br>Public Service Power Co.                                                          |
| Bridgeton.....                              | Cumberland..... | 90              | 46                      | 66.8                         | -1.4                      | 94      | 15   | 39     | 25   | 37                       | 3.06  | -0.45                     | 1.43                 | 0                         | 5                            | 17    | 9          | 4                            | sw.       |                                                                                                                            |
| Burlington.....                             | Burlington..... | 12              | 41                      | 67.4                         | +0.6                      | 95      | 15   | 42     | 24   | 35                       | ..... | .....                     | .....                | 0                         | .....                        | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Clayton.....                                | Gloucester..... | 130             | 30                      | 66.2                         | .....                     | 90      | 15   | 35     | 25   | 44                       | 3.30  | -0.61                     | 1.66                 | 0                         | 6                            | 21    | 5          | 4                            | sw.       |                                                                                                                            |
| Hammononton .....                           | Atlantic.....   | 103             | 24                      | 66.0                         | .....                     | 93      | 15   | 41     | 25   | 34                       | 3.48  | .....                     | 1.74                 | 0                         | 6                            | 18    | 5          | 7                            | ne.       | Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                                                |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | 66.0                         | -0.8                      | 94      | 15   | 36     | 24   | 43                       | 1.80  | -1.33                     | 0.73                 | 0                         | 5                            | 21    | 5          | 4                            | sw.       |                                                                                                                            |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | 66.2                         | +0.1                      | 93      | 15   | 35     | 25   | 44                       | 3.30  | -0.61                     | 1.66                 | 0                         | 6                            | 21    | 5          | 4                            | sw.       |                                                                                                                            |
| Indian Mills..                              | Burlington..... | 76              | 38                      | 66.2                         | +0.1                      | 93      | 15   | 35     | 25   | 44                       | 3.30  | -0.61                     | 1.66                 | 0                         | 6                            | 21    | 5          | 4                            | sw.       |                                                                                                                            |
| Lakewood.....                               | Ocean.....      | 54              | 23                      | 63.6                         | -1.0                      | 90      | 15   | 36     | 25   | 35                       | 2.70  | -0.09                     | 1.30                 | 0                         | 4                            | 21    | 4          | 5                            | sw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                        |
| Moorestown.....                             | Burlington..... | 75              | 64                      | 67.0                         | +1.0                      | 93      | 15   | 42     | 24   | 36                       | 3.44  | -0.19                     | 1.47                 | 0                         | 6                            | 21    | 4          | 5                            | w.        |                                                                                                                            |
| Northfield..                                | Atlantic.....   | 25              | 20                      | 67.0                         | +1.0                      | 93      | 15   | 42     | 24   | 36                       | 2.46  | -0.04                     | 1.15                 | 0                         | 6                            | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Pleasantville..                             | Atlantic.....   | 26              | 29                      | 67.0                         | +1.0                      | 93      | 15   | 42     | 24   | 36                       | 2.46  | -0.04                     | 1.15                 | 0                         | 6                            | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Riverton.....                               | Burlington..... | 1               | 1                       | 66.0                         | .....                     | 93      | 15   | 41     | 25   | 34                       | 3.48  | .....                     | 1.74                 | 0                         | 6                            | 18    | 5          | 7                            | ne.       | Japanese Beetle Laboratory<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Runyon..                                    | Middlesex.....  | 18              | 3                       | 64.8                         | .....                     | 97      | 15   | 32     | 24   | 44                       | 1.65  | .....                     | 0.90                 | 0                         | 4                            | 24    | 5          | 1                            | w.        |                                                                                                                            |
| Trenton.....                                | Mercer.....     | 190             | 55                      | 66.8                         | -0.1                      | 92      | 15   | 46     | 25   | 31                       | 2.03  | -1.56                     | 1.50                 | 0                         | 5                            | 13    | 11         | 6                            | sw.       |                                                                                                                            |
| Tuckerton.....                              | Ocean.....      | 23              | 34                      | 66.4                         | +0.2                      | 93      | 15   | 39     | 26   | 38                       | 3.73  | +0.67                     | 1.13                 | 0                         | 6                            | 23    | 6          | 1                            | se.       |                                                                                                                            |
| Vineland.....                               | Cumberland..... | 109             | 58                      | 68.8                         | +1.8                      | 95      | 15   | 43     | 24   | 36                       | 2.41  | -1.28                     | 0.80                 | 0                         | 6                            | 20    | 8          | 2                            | n.        |                                                                                                                            |
| Philadelphia, Pa.....                       |                 | 117             | 56                      | 69.4                         | +1.4                      | 95      | 15   | 51     | 24   | 31                       | 2.59  | -0.79                     | 1.67                 | 0                         | 6                            | 14    | 9          | 7                            | sw.       | U. S. Weather Bureau.                                                                                                      |
| Means and extremes...                       |                 |                 |                         | 66.3                         | 0.0                       | 97      | 15   | 31     | 25   | 44                       | 2.67  | -0.62                     | 1.74                 | 0                         | 5                            | 19    | 7          | 4                            | sw.       |                                                                                                                            |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |            |                              |           |                                                                                                                            |
| Asbury Park.....                            | Monmouth .....  | 22              | 38                      | 66.0                         | -0.8                      | 90      | 15   | 43     | 25   | 33                       | 1.58  | -1.41                     | 1.35                 | 0                         | 4                            | 23    | 5          | 2                            | sw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                             |
| Atlantic City.....                          | Atlantic.....   | 16              | 54                      | 67.5                         | +0.7                      | 93      | 15   | 50     | 24   | 27                       | 2.60  | -0.45                     | 1.10                 | 0                         | 7                            | 18    | 5          | 7                            | s.        |                                                                                                                            |
| Cape May City.....                          | Cape May.....   | 17              | 43                      | 68.6                         | -0.4                      | 92      | 15   | 48     | 25   | 26                       | 0.71  | -2.29                     | 0.63                 | 0                         | 3                            | 12    | 11         | 7                            | sw.       |                                                                                                                            |
| Sandy Hook.....                             | Monmouth.....   | 22              | 29                      | 67.2                         | +0.1                      | 88      | 15   | 54     | 25   | 24                       | 3.16  | -0.34                     | 2.51                 | 0                         | 4                            | 16    | 5          | 9                            | sw.       |                                                                                                                            |
| Means and extremes...                       |                 |                 |                         | 67.3                         | -0.1                      | 93      | 15   | 43     | 25   | 33                       | 2.01  | -1.12                     | 2.51                 | 0                         | 4                            | 17    | 7          | 6                            | sw.       |                                                                                                                            |
| For the State.....                          |                 |                 |                         | 65.6                         | +0.1                      | 97      | 15   | 29     | 25   | 46                       | 2.66  | -1.17                     | 4.48                 | 0                         | 5                            | 19    | 6          | 5                            | sw.       |                                                                                                                            |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



## Daily Precipitation for September, 1927

| Stations                                   | Drainage Basin  | Day of month |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      | Total |
|--------------------------------------------|-----------------|--------------|------|------|---|---|---|-----|-----|---|-----|-----|-----|-----|------|-----|----|----|-----|------|------|----|----|----|----|----|----|----|-----|-----|-----|------|-------|
|                                            |                 | 1            | 2    | 3    | 4 | 5 | 6 | 7   | 8   | 9 | 10  | 11  | 12  | 13  | 14   | 15  | 16 | 17 | 18  | 19   | 20   | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28  | 29  | 30  | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Belvidere.....                             | Delaware.....   | .46          |      |      |   |   |   |     |     |   |     | T.  |     |     |      |     |    |    |     | .85  |      |    |    |    |    |    |    |    |     |     |     | 1.32 |       |
| Charlotteburg.....                         | Passaic.....    | 1.19         | 1.02 |      |   |   |   |     |     |   |     | .01 |     | T.  |      |     |    |    |     | .55  | .07  |    |    |    |    |    |    |    | .03 | .01 |     | 2.88 |       |
| Culvers Lake.....                          | Delaware.....   | 1.10         | .08  |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     | .52  | .03  |    |    |    |    |    |    |    |     |     |     | 1.73 |       |
| Dover.....                                 | Passaic.....    | .87          |      |      |   |   |   |     |     |   |     | .03 |     | .01 |      |     |    |    |     | .67  |      |    |    |    |    |    |    |    | .02 |     |     | 1.60 |       |
| Layton.....                                | Delaware.....   | 2.01         | T.   |      |   |   |   |     |     |   |     | .02 |     |     |      |     |    |    |     | .30  | T.   |    |    |    |    |    |    |    |     | T.  |     | 2.33 |       |
| Newton.....                                | Delaware.....   | .90          | .04  |      |   |   |   |     |     |   |     | .08 |     |     |      |     |    |    |     | .63  |      |    |    |    |    |    |    |    |     | .01 |     | 1.66 |       |
| Phillipshurg.....                          | do.....         | .27          | T.   |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    | T.  | .38  |      |    |    |    |    |    |    |    | T.  | T.  |     | 0.65 |       |
| Sussex.....                                | Hudson.....     | 1.40         | .41  |      |   |   |   |     |     |   |     | .07 |     |     |      |     |    |    |     | .63  | .04  |    |    |    |    |    |    |    |     | .03 |     | 2.58 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Bergen Point**.....                        | Coast.....      | 3.21         | .13  |      |   |   |   |     |     |   | .02 | T.  |     |     |      |     |    |    |     | .50  |      |    |    |    |    |    |    |    |     | .01 |     | 3.87 |       |
| Boonton   .....                            | Passaic.....    | T.           | 1.66 |      |   |   |   |     |     |   |     |     | T.  |     |      |     |    |    |     | .49  | .12  |    |    |    |    |    |    |    | .01 | T.  |     | 2.28 |       |
| Chatham   .....                            | do.....         | .27          | 1.67 | T.   |   |   |   |     |     |   |     |     | T.  |     |      |     |    |    |     | .38  | .13  |    |    |    |    |    |    | T. | .02 |     |     | 2.47 |       |
| Elizabeth.....                             | Coast.....      | 2.19         | .01  |      |   |   |   |     |     |   |     | .02 |     |     |      |     |    |    |     | .35  | .25  |    |    |    |    |    |    |    |     | .01 |     | 2.83 |       |
| Flemington.....                            | Raritan.....    | .44          |      |      |   |   |   |     |     |   |     |     | T.  |     |      |     |    |    |     | .57  | .07  |    |    |    |    |    |    |    |     |     |     | 1.08 |       |
| Highwood.....                              | Hackensack..... | 3.62         | .04  |      |   |   |   |     |     |   |     | T.  | T.  |     |      |     |    |    |     | .46  | .12  |    |    |    |    |    |    |    |     | T.  |     | 4.24 |       |
| Jersey City.....                           | Coast.....      | 3.49         | .11  |      |   |   |   |     |     |   | .01 | .06 |     | T.  |      |     |    |    |     | .18  | .26  |    |    |    |    |    |    |    | T.  | T.  |     | 4.11 |       |
| Lambertville.....                          | Delaware.....   | .44          |      |      |   |   |   |     |     |   |     |     |     | T.  |      | .03 |    |    |     | .67  | .08  |    |    |    |    |    |    |    |     |     |     | 1.22 |       |
| Little Falls,   .....                      | Passaic.....    | .18          | 4.30 |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     | .34  | .17  |    |    |    |    |    |    |    |     | .03 | .01 | 5.03 |       |
| New Brunswick.....                         | Raritan.....    | 1.28         |      |      |   |   |   |     |     |   |     |     | T.  |     |      |     |    |    |     | .51  | .37  |    |    |    |    |    |    |    |     | .02 |     | 2.18 |       |
| New Milford**.....                         | Hackensack..... | 3.83         | .18  |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     | .38  | .03  |    |    |    |    |    |    |    |     |     |     | 4.42 |       |
| Paterson.....                              | Passaic.....    | 3.18         | .80  |      |   |   |   |     |     |   |     | T.  |     |     |      |     |    |    |     | .32  | .16  |    |    |    |    |    |    |    | T.  |     |     | 4.46 |       |
| Plainfield.....                            | Raritan.....    | 1.50         | .01  |      |   |   |   |     |     |   |     | T.  | .05 |     | T.   |     |    |    |     | .55  | .16  |    |    |    |    |    |    |    | T.  | T.  |     | 2.27 |       |
| Ridgefield.....                            | Hackensack..... | 4.00         | T.   |      |   |   |   |     |     |   |     |     | T.  |     |      |     |    |    |     | .26  | .31  |    |    |    |    |    |    | T. | T.  | T.  |     | 4.57 |       |
| Somerville.....                            | Raritan.....    | 1.04         |      |      |   |   |   |     |     |   |     | .04 |     |     |      |     |    |    |     |      | .08  |    |    |    |    |    |    |    | T.  | T.  | T.  | 1.16 |       |
| South Orange.....                          | Rahway.....     |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Verona**.....                              | Passaic.....    | 3.77         |      |      |   |   |   |     |     |   |     | .03 |     |     |      |     |    |    |     | .46  |      |    |    |    |    |    |    | T. | .04 |     |     | 4.30 |       |
| Woodcliff Lake**.....                      | Hackensack..... | 3.35         |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    | .05 | .29  | .10  |    |    |    |    |    |    |    |     |     |     | 3.79 |       |
| New York, N. Y***.....                     | Coast.....      | 3.21         | .10  |      |   |   |   |     |     |   | .01 | .07 |     | T.  |      |     |    |    |     | .45  |      |    |    |    |    |    |    |    | T.  | T.  |     | 3.84 |       |
| <i>The Southern Interior.</i>              |                 |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Belleplain.....                            | Tuckahoe.....   |              |      |      |   |   |   |     |     |   |     |     |     |     |      | .10 |    |    |     | 1.26 | .63  |    |    |    |    |    |    |    |     |     |     | \$   |       |
| Bridgeton.....                             | Coast.....      | .69          |      |      |   |   |   |     | .22 |   |     |     |     |     | .21  | .05 |    |    |     | .53  | .32  |    |    |    |    |    |    |    |     |     |     | 2.02 |       |
| Burlington.....                            | Delaware.....   | .84          | .02  |      |   |   |   |     |     |   |     | .08 |     |     | .18  |     |    |    |     | 1.43 | .51  |    |    |    |    |    |    |    |     |     |     | 3.06 |       |
| Clayton.....                               | Delaware.....   |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Hammonton.....                             | Mullica.....    |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Hightstown.....                            | Raritan.....    | .73          |      |      |   |   |   |     |     |   |     | .03 |     |     | T.   |     |    |    |     | .59  | .40  |    |    |    |    |    |    |    | .05 |     |     | 1.80 |       |
| Imlaystown.....                            | Delaware.....   |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Indian Mills.....                          | Mullica.....    | .43          | .09  |      |   |   |   |     |     |   |     | .03 |     |     | 1.09 | T.  |    |    |     | 1.30 | .36  |    |    |    |    |    |    |    |     |     |     | 3.30 |       |
| Lakewood.....                              | Metedeconk..... | .78          | 1.30 |      |   |   |   |     |     |   |     | T.  |     |     |      |     |    |    |     | .46  | .16  |    |    |    |    |    |    |    |     |     |     | 2.70 |       |
| Moorestown.....                            | Delaware.....   | 1.07         |      |      |   |   |   |     |     |   | .09 |     |     |     | .30  | .01 |    |    |     | 1.47 | .50  |    |    |    |    |    |    |    |     |     |     | 3.44 |       |
| Northfield.....                            | Coast.....      | .28          |      | 1.15 |   |   |   |     |     |   | .27 |     |     |     | .15  |     |    |    |     | .37  | .24  |    |    |    |    |    |    |    |     |     |     | 2.46 |       |
| Pleasantville   .....                      | Coast.....      |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Riverton   .....                           | Delaware.....   | .25          | .58  |      |   |   |   |     |     |   |     | .15 |     |     | .24  |     |    |    |     | 1.74 | .52  |    |    |    |    |    |    |    |     |     |     | 3.48 |       |
| Runyon.....                                | Coast.....      | .90          |      |      |   |   |   |     |     |   |     |     |     |     | .24  |     |    |    |     | .18  | .50  |    |    |    |    |    |    |    |     |     |     | 1.65 |       |
| Trenton***.....                            | Delaware.....   | .49          |      |      |   |   |   |     |     |   |     | T.  | T.  |     | .02  | .02 | T. |    |     | .29  | 1.21 |    |    |    |    |    |    |    | .07 | T.  |     | 2.03 |       |
| Tuckerton.....                             | Coast.....      | .75          |      | .76  |   |   |   |     |     |   |     | .21 |     |     | .18  |     |    |    |     | 1.13 | .70  |    |    |    |    |    |    |    |     |     |     | 3.73 |       |
| Vineland.....                              | Maurice.....    | * .80        |      |      |   |   |   |     |     |   |     | .04 |     |     | .28  | .41 |    |    |     | .56  | .32  |    |    |    |    |    |    |    |     |     |     | 2.41 |       |
| Phila., Pa***.....                         | Delaware.....   | .26          |      |      |   |   |   |     |     |   |     | T.  | .02 |     | .01  | .63 | T. |    |     | .46  | 1.21 |    |    |    |    |    |    |    |     | T.  |     | 2.59 |       |
| <i>The Sea Coast.</i>                      |                 |              |      |      |   |   |   |     |     |   |     |     |     |     |      |     |    |    |     |      |      |    |    |    |    |    |    |    |     |     |     |      |       |
| Ashury Park.....                           | Coast.....      | 1.35         |      |      |   |   |   |     |     |   |     | T.  |     | T.  |      |     |    |    |     | .05  | .15  |    |    |    |    |    |    |    |     | .03 |     | 1.58 |       |
| Atlantic City***.....                      | do.....         | .44          | .56  |      |   |   |   |     |     |   | .01 | .35 |     |     | .10  | .04 |    |    |     | 1.10 |      |    |    |    |    |    |    |    |     | T.  |     | 2.60 |       |
| Cape May City.....                         | do.....         | .06          |      |      |   |   |   | .02 |     |   |     |     |     |     |      |     | T. |    |     | .63  | T.   |    |    |    |    |    |    |    |     |     |     | 0.71 |       |
| Sandy Hook***.....                         | do.....         | 2.51         |      |      |   |   |   |     |     |   |     | T.  | .02 | .15 |      | T.  |    |    |     | .48  |      |    |    |    |    |    |    |    | T.  | T.  |     | 3.16 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

## MISCELLANEOUS DATA

| Stations.             | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                               |                                           |                                         | Sun-<br>shine                      |
|-----------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|----------------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------|
|                       | Monthly mean | Highest | Date | Lowest | Late | Hourly velocity | Highest        |           |      | Relative humidity<br>per cent at 8 a m | Relative humidity,<br>per cent at 12 noon | Relative humidity,<br>per cent at 8 p m | Percentage of<br>possible sunshine |
|                       |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                        |                                           |                                         |                                    |
| Atlantic City.....    | 30.02        | 30.38   | 25   | 29.54  | 11   | 13.1            | 34             | n.        | 1    | 80                                     | 68                                        | 77                                      | 71                                 |
| New York, N. Y.....   | 30.02        | 30.43   | 28   | 29.52  | 11   | 12.9            | 50             | nw.       | 1    | 78                                     | 62                                        | 74                                      | 73                                 |
| Philadelphia, Pa..... | 30.04        | 30.43   | 28   | 29.56  | 11   | 7.4             | 26             | sw.       | 30   | 77                                     | 61                                        | 69                                      | 70                                 |
| Ridgefield.....       | 30.02        | 30.43   | 28   | 29.51  | 11   |                 |                |           |      |                                        |                                           |                                         |                                    |
| Riverton.....         |              |         |      |        |      |                 |                |           |      | 85                                     | 59                                        | 86                                      |                                    |
| Sandy Hook.....       | 30.01        | 30.41   | 28   | 29.50  | 11   | 12.4            | 47             | n.        | 1    | 78                                     | 61                                        | 74                                      | 69                                 |
| Trenton.....          | 30.02        | 30.39   | 28   | 29.54  | 11   | 8.3             | 34             | sw.       | 30   | 80                                     | 53                                        | 76                                      | 71                                 |
| Verona.....           | 30.03        | 30.44   | 28   | 29.50  | 11   | 4.6             | 20             | nw.       | 11   | 80                                     | 58                                        | 78                                      |                                    |



## Daily Temperatures for September, 1927

| Stations                             | 1       | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  | 18  | 19  | 20  | 21  | 22  | 23  | 24  | 25  | 26  | 27  | 28  | 29  | 30  | 31                | Mean              |                   |
|--------------------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-------------------|-------------------|
| The Highlands and Kittatinny Valley. |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |                   |
| Belvidere.....                       | Maximum | 70  | 74  | 87  | 85  | 84  | 85  | 83  | 82  | 84  | 82  | 82  | 80  | 78  | 81  | 94  | 85  | 84  | 80  | 75  | 78  | 75  | 72  | 75  | 79  | 81  | 83  | 67  | 83  | 87  | 80.5 <sup>a</sup> |                   |                   |
|                                      | Minimum | 62  | 54  | 57  | 62  | 51  | 46  | 52  | 61  | 48  | 52  | 65  | 51  | 47  | 58  | 56  | 53  | 50  | 59  | 58  | 53  | 50  | 39  | 41  | 36  | 38  | 42  | 41  | 53  | 56  | 58                | 51.8              |                   |
| Charlotteburg.....                   | Maximum | 75  | 75  | 83  | 86  | 77  | 82  | 84  | 83  | 80  | 82  | 79  | 75  | 73  | 86  | 89  | 86  | 80  | 81  | 76  | 70  | 70  | 72  | 69  | 70  | 75  | 78  | 75  | 67  | 78  | 83                | 78.0              |                   |
|                                      | Minimum | 59  | 58  | 50  | 45  | 50  | 40  | 45  | 46  | 38  | 45  | ... | 48  | 38  | 56  | 58  | 47  | 40  | 51  | 60  | 46  | 40  | 35  | 38  | 38  | 29  | 32  | 39  | 48  | 51  | 59                | 45.8 <sup>a</sup> |                   |
| Dover.....                           | Maximum | 67  | 74  | 84  | 80  | 79  | 80  | 83  | 77  | 78  | 76  | 77  | 74  | 71  | 75  | 90  | 80  | 79  | 78  | 71  | 72  | 70  | 63  | 66  | 69  | 73  | 77  | 75  | 65  | 77  | 82                | 75.6              |                   |
|                                      | Minimum | 62  | 59  | 55  | 62  | 50  | ... | 53  | 57  | 45  | 49  | 60  | 50  | 45  | 57  | 54  | 52  | 47  | 58  | 57  | 50  | 49  | 41  | 41  | 40  | 35  | 39  | 43  | 50  | 54  | 62                | 50.9 <sup>a</sup> |                   |
| Layton.....                          | Maximum | 75  | 75  | 84  | 78  | 78  | 80  | 85  | 82  | 80  | 80  | 78  | 80  | 72  | 67  | 76  | 89  | 78  | 81  | 76  | 70  | 73  | 69  | 68  | 66  | 70  | 75  | 78  | 74  | 63  | 73                | 76.0              |                   |
|                                      | Minimum | 58  | 62  | 55  | 52  | 48  | 44  | 58  | ... | 80  | 79  | 76  | 81  | 74  | 74  | 78  | 90  | 80  | 81  | 78  | 76  | 78  | 69  | 68  | 66  | 70  | 75  | 78  | 74  | 63  | 73                | 76.0              |                   |
| Newton.....                          | Maximum | 70  | 73  | 84  | 80  | 79  | 81  | 82  | 80  | 79  | 76  | 81  | 74  | 74  | 78  | 90  | 80  | 81  | 78  | 76  | 78  | 69  | 68  | 66  | 70  | 75  | 78  | 74  | 63  | 73  | 76                | 49.3 <sup>t</sup> |                   |
|                                      | Minimum | 60  | 58  | 56  | 63  | 51  | 48  | 54  | 55  | 50  | 47  | 63  | 49  | 47  | 58  | 57  | 50  | 48  | 61  | 56  | 48  | 48  | 41  | 41  | 40  | 39  | 43  | 46  | 50  | 53  | 59                | 51.3              |                   |
| Phillipsburg.....                    | Maximum | 77  | 75  | 85  | 78  | 76  | 81  | 75  | 81  | 77  | 74  | 82  | 74  | 69  | 73  | 90  | 78  | 80  | 69  | 72  | 68  | ... | ... | 64  | 75  | 69  | ... | 62  | ... | 82  | ...               | 75.6 <sup>d</sup> |                   |
|                                      | Minimum | 63  | 61  | 60  | 60  | 54  | 48  | 52  | 61  | 48  | 52  | 66  | 52  | 48  | 59  | 56  | 55  | 58  | 59  | 60  | 53  | 51  | 45  | 42  | 39  | 40  | 42  | 45  | 54  | 58  | 59                | 53.3              |                   |
| Sussex.....                          | Maximum | 74  | 70  | 86  | 80  | 81  | 83  | 86  | 81  | 79  | ... | 81  | 75  | 70  | 78  | 80  | 83  | 82  | 78  | 75  | 75  | 70  | 72  | 60  | 71  | 76  | 80  | 73  | 63  | 80  | 84                | 77.4 <sup>a</sup> |                   |
|                                      | Minimum | 60  | 60  | 55  | 60  | 47  | 43  | 52  | 44  | ... | 47  | 64  | 47  | 43  | 57  | 52  | 50  | 43  | 57  | 59  | 50  | 46  | 35  | 38  | 35  | 33  | 36  | 43  | 52  | 52  | 56                | 48.8 <sup>a</sup> |                   |
| The Red Sandstone Plain.             |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |                   |
| Bergen Point.....                    | Maximum | 70  | ... | ... | ... | 80  | 81  | ... | 75  | ... | ... | ... | 70  | 73  | 92  | ... | 83  | 81  | 80  | 75  | ... | 72  | 69  | 70  | 79  | 79  | 75  | 60  | 81  | 86  | ...               | 76.6 <sup>i</sup> |                   |
|                                      | Minimum | 64  | 60  | 61  | 64  | 59  | 57  | 58  | 67  | 65  | ... | ... | 54  | 54  | 62  | 63  | 57  | 57  | 65  | 60  | 57  | 53  | 53  | 50  | 48  | 57  | 47  | 52  | 53  | 59  | 58                | ...               | 57.9 <sup>a</sup> |
| Boonton§§.....                       | Maximum | 68  | 76  | 84  | 80  | 81  | 80  | 80  | 79  | 80  | 77  | 81  | 74  | 72  | 78  | 91  | ... | 77  | 79  | 72  | 74  | 70  | 71  | 67  | 72  | 73  | 75  | 79  | 66  | 77  | 83                | ...               | 76.4 <sup>a</sup> |
|                                      | Minimum | 56  | 59  | 56  | 60  | 50  | 49  | 51  | 56  | 44  | 48  | 55  | 51  | 45  | 51  | 55  | 51  | 45  | 50  | 58  | 49  | 46  | 39  | 43  | 38  | 34  | 37  | 41  | 49  | 50  | 55                | ...               | 49.0              |
| Elizabeth.....                       | Maximum | 70  | 82  | 82  | 83  | 81  | 83  | 88  | 81  | 80  | 80  | 82  | 77  | 76  | 78  | 94  | 84  | 82  | 82  | 77  | 76  | 72  | 73  | 71  | 72  | 79  | 79  | 80  | 63  | 81  | 86                | ...               | 79.1              |
|                                      | Minimum | 63  | 58  | 62  | 63  | 54  | 52  | 55  | 62  | 50  | 50  | 61  | 51  | 48  | 60  | 57  | 55  | 50  | 56  | 63  | 52  | 49  | 43  | 44  | 42  | 39  | 41  | 45  | 51  | 56  | 58                | ...               | 53.0              |
| Flemington.....                      | Maximum | 71  | 82  | 87  | 81  | 78  | 87  | 82  | 80  | 78  | 83  | 77  | 74  | 73  | 73  | 95  | 83  | 81  | 83  | 75  | 76  | 70  | 69  | 70  | 66  | 78  | 81  | 78  | 67  | 81  | 82                | ...               | 78.3              |
|                                      | Minimum | 64  | 60  | 59  | 63  | 56  | 50  | 54  | 64  | 49  | 52  | 67  | 53  | 49  | 60  | 58  | 56  | 51  | 57  | 62  | 54  | 50  | 47  | 46  | 41  | 38  | 42  | 44  | 53  | 57  | 57                | ...               | 53.8              |
| Highwood.....                        | Maximum | 68  | 74  | 80  | 79  | 74  | 76  | 81  | 74  | 72  | 75  | 78  | 72  | 74  | 71  | 89  | 73  | 77  | 76  | 72  | 70  | 67  | 66  | 61  | 66  | 72  | 75  | 71  | 58  | 75  | 82                | ...               | 73.3              |
|                                      | Minimum | 63  | 60  | 62  | 63  | 52  | 50  | 56  | 58  | 46  | 50  | 62  | 51  | 47  | 59  | 58  | 53  | 49  | 57  | 58  | 53  | 50  | 43  | 40  | 38  | 41  | 45  | 51  | 55  | 61  | ...               | 52.5              |                   |
| Jersey City.....                     | Maximum | 68  | 80  | 82  | 84  | 80  | 81  | 83  | 80  | 78  | 79  | 82  | 77  | 75  | 78  | 94  | 79  | 81  | 82  | 74  | 76  | 71  | 72  | 69  | 70  | 75  | 76  | 79  | 62  | 70  | 85                | ...               | 77.7              |
|                                      | Minimum | 63  | 61  | 65  | 66  | 62  | 62  | 61  | 66  | 62  | 60  | 63  | 55  | 58  | 62  | 61  | 58  | 60  | 62  | 58  | 57  | 57  | 53  | 52  | 50  | 53  | 54  | 56  | 54  | 60  | 63                | ...               | 59.1              |
| Lambertville.....                    | Maximum | 69  | 80  | 87  | 81  | 78  | 82  | 81  | 78  | 80  | 75  | 79  | 74  | 74  | 78  | 91  | 79  | 79  | 81  | 80  | 74  | 75  | 72  | 69  | 72  | 76  | 79  | 79  | 61  | 80  | 87                | ...               | 76.3              |
|                                      | Minimum | 63  | 59  | 60  | 60  | 56  | 59  | 56  | 65  | 52  | 55  | 67  | 50  | 52  | 60  | 51  | 57  | 55  | 59  | 60  | 53  | 51  | 45  | 46  | 44  | 44  | 49  | 51  | 53  | 55  | 61                | ...               | 54.9              |
| Little Falls§§.....                  | Maximum | 67  | 81  | 86  | 83  | 81  | 83  | 83  | 80  | 81  | 79  | 83  | 77  | 74  | 80  | 93  | 81  | 81  | 80  | 74  | 75  | 72  | 69  | 72  | 76  | 79  | 79  | 61  | 80  | 87  | ...               | 78.3              |                   |
|                                      | Minimum | 62  | 60  | 58  | 63  | ... | 51  | 54  | 61  | 47  | 49  | 61  | 52  | 47  | 55  | 55  | 53  | 51  | 54  | 63  | 52  | 49  | 42  | 41  | 40  | 43  | 40  | 44  | 50  | 52  | 59                | ...               | 52.0 <sup>a</sup> |
| New Brunswick.....                   | Maximum | 70  | 79  | 86  | 81  | 78  | 81  | 83  | 78  | 77  | 80  | 74  | 75  | 78  | 93  | 87  | 80  | 81  | 80  | 74  | 75  | 72  | 70  | 67  | 68  | 75  | 77  | 76  | 62  | 82  | 86                | ...               | 77.4              |
|                                      | Minimum | 64  | 60  | 60  | 65  | 56  | 52  | 57  | 64  | 52  | 52  | 66  | 53  | 51  | 61  | 60  | 57  | 51  | 59  | 64  | 55  | 51  | 45  | 46  | 43  | 40  | 44  | 47  | 52  | 55  | 62                | ...               | 54.8              |
| Paterson.....                        | Maximum | 73  | 78  | 83  | 85  | 75  | 79  | 83  | 78  | 75  | 78  | 80  | 83  | 78  | 75  | 90  | 83  | 79  | 77  | 72  | 73  | 69  | 69  | 67  | 69  | 74  | 76  | 73  | 60  | 77  | 84                | ...               | 76.2              |
|                                      | Minimum | 63  | 60  | 62  | 71  | 55  | 55  | 59  | 64  | 52  | 54  | 69  | 54  | 53  | 62  | 60  | 56  | 53  | 60  | 63  | 53  | 53  | 46  | 47  | 46  | 44  | 46  | 52  | 51  | 56  | 61                | ...               | 56.0              |
| Plainfield.....                      | Maximum | 68  | 80  | 87  | 86  | 81  | 82  | 85  | 80  | 79  | 81  | 83  | 77  | 76  | 78  | 94  | 78  | 82  | 83  | 74  | 78  | 72  | 72  | 69  | 72  | 75  | 77  | 79  | 64  | 80  | 86                | ...               | 78.6              |
|                                      | Minimum | 64  | 59  | 60  | 63  | 54  | 50  | 54  | 62  | 46  | 49  | 64  | 50  | 46  | 55  | 57  | 54  | 50  | 57  | 64  | 52  | 47  | 42  | 43  | 40  | 37  | 40  | 43  | 50  | 54  | 60                | ...               | 52.2              |
| Ridgefield.....                      | Maximum | 68  | 80  | 83  | 84  | 80  | 82  | 84  | 78  | 79  | 78  | 81  | 78  | 75  | 76  | 91  | 78  | 81  | 79  | 73  | 75  | 71  | 71  | 70  | 71  | 77  | 78  | 74  | 68  | 78  | 85                | ...               | 77.2              |
|                                      | Minimum | 62  | 61  | 65  | 61  | 55  | 52  | 58  | 55  | 49  | 53  | 57  | 51  | 50  | 60  | 60  | 54  | 53  | 59  | 56  | 53  | 50  | 44  | 44  | 42  | 40  | 44  | 47  | 51  | 58  | 61                | ...               | 53.5              |
| Somerville.....                      | Maximum | 78  | 84  | 90  | 85  | 82  | 85  | 86  | 83  | 82  | 80  | 83  | 78  | 78  | 80  | 95  | 82  | 84  | 82  | 75  | 77  | 74  | 75  | 70  | 72  | 78  | 80  | 80  | 63  | 82  | 88                | ...               | 80.4              |
|                                      | Minimum | 63  | 57  | 56  | 60  | 52  | 49  | 51  | 64  | 46  | 50  | 67  | 52  | 48  | 59  | 55  | 55  | 49  | 56  | 65  | 51  | 46  | 41  | 42  | 37  | 36  | 37  | 41  | 53  | 66  | ...               | 51.8              |                   |
| South Orange.....                    | Maximum | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...               | ...               | ...               |
|                                      | Minimum | 66  | 76  | 81  | 78  | 75  | 76  | 79  | 75  | 73  | 74  | 81  | 71  | 70  | 73  | 88  | 73  | 76  | 76  | 71  | 71  | 68  | 66  | 66  | 65  | 71  | 73  | 73  | 55  | 75  | 81                | ...               | 73.2              |
| Verona.....                          | Maximum | 61  | 59  | 59  | 65  | 56  | 52  | 60  | 60  | 49  | 55  | 64  | 51  | 51  | 60  | 59  | 54  | 56  | 60  | 58  | 52  | 52  | 43  | 45  | 44  | 42  | 49  | 53  | 50  | 55  | 62                | ...               | 54.5              |
|                                      | Minimum | 68  | 77  | 79  | 80  | 76  | 78  | 76  | 75  | 74  | 80  | 74  | 73  | 74  | 90  | 75  | 76  | 75  | 72  | 72  | 68  | 67  | 67  | 73  | 73  | 73  | 73  | 60  | 76  | 82  | ...               | 74.4              |                   |
| New York, N. Y                       |         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |                   |



51.05  
(NN)

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

# CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXII.

OCTOBER, 1927.

No. 10

### GENERAL SUMMARY.

The weather during October was notable in several factors. There were four rainstorms each of which amounted to over an inch in nearly all localities, and the last to some four inches in three days, from the 17th to the 20th. This culminated in unusually high water in all streams, ponds, etc. While the freshets assumed menacing aspects, there was no serious damage caused by the high water. Between the rainy periods the weather was fair and mostly warm, with an unusual absence of severe frosts, so that late agriculture continued to grow well to the close of the month. It was the warmest October since 1920, and the rainiest on record with the notable exception of that of 1903. Temperatures were mostly continuously above normal on the first and last eight day periods of the month, and also on the 12th and 13th. These general conditions were favorable to late maturing crops and to general farm and out-door occupations. Crops were practically unhurt by early frosts.

For the calendar year, to date, the combined factors of both precipitation and temperature show the year to be practically normal.

Storm warnings were displayed along the coast on the 3d, 12th, and 17th to 19th.

### TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 56.8°, which was 1.8° above normal. The highest temperature was 94° at Belvidere and Bergen Point on the 2d, and the lowest, 23°, at Runyon on the 31st. The greatest daily range of temperature was 46° at Charlotteburg on the 26th. The highest monthly mean temperature was 60.5° at Cape May City, and the lowest, 52.8° at Charlotteburg.

The temperature departure from the normal for the year, 1927, to date, by sections, is: The Highlands, 0.0°; Red Sandstone Plain, -0.4°; Southern Interior, -0.2°; Sea Coast, +0.1°.

### PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 7.82 inches, which was 4.10 inches above normal.

The greatest monthly precipitation was 14.07 inches, at Tuckerton, and the least, 2.81 inches at Cape May City. The greatest amount of precipitation in any 24 consecutive hours was 4.00 inches at Tuckerton on the 12-13th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 10, or 2 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, +0.56 inch; Red Sandstone Plain, +4.86 inches; Southern Interior, -1.11 inches; Sea Coast, -0.56 inch.

### WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 15 miles per hour, which was 3 miles above normal. The highest velocity, sustained for 5 consecutive

minutes, was 72 miles per hour from the southeast at Atlantic City on the 4th. High winds also occurred on the 3d, 4th, 12th, 13th, 17th, 18th and 21st.

### SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 18, which was 3 more than normal; partly cloudy, 5, or 3 less than normal; cloudy, 8, or normal. The per cent of possible sunshine was 68, which was 5 per cent above normal.

### MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.00 inches, which was 0.07 inch below normal. The highest reading was 30.40 inches on the 31st at Riverton and the lowest, 29.15 inches on the 20th at Ridgefield.

The mean stage of the Delaware River at Phillipsburg was 6.2 feet, and the highest stage, 19.0 feet on the 20th. At Trenton the mean stage was 3.4 feet, which was 2.0 feet above normal. The highest stage, 10.9 feet, occurred on the 20th.

Thunderstorms were reported on the 12th, 19th, 20th and 23d. Dense fog occurred on the 2d, 3d, 6th, 10th, 26th, 28th and 29th. A lunar halo was observed on the 17th. Killing frost occurred very generally over extreme northern districts on the 11th, and this frost was heavy over nearly all the northern half. Killing frost occurred practically throughout the State on the 31st.

Moderate hail, with no damage fell on the 19th at Ridgefield.

### COMPARATIVE DATA FOR OCTOBER

| Year      | Temperature |         |        | Precipitation |          |       | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|----------|-------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest | Least | Clear       | Partly Cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 54.2        | 82      | 29     | 4.20          | 5.85     | 2.91  | .....       | .....         | .....  | .....                  |
| 1886..... | 55.6        | 88      | 21     | 3.22          | 8.16     | 2.02  | .....       | .....         | .....  | .....                  |
| 1887..... | 52.3        | 89      | 21     | 2.61          | 5.00     | 1.58  | .....       | .....         | .....  | 7                      |
| 1888..... | 49.2        | 73      | 25     | 4.73          | 7.00     | 2.97  | .....       | .....         | .....  | 10                     |
| 1889..... | 50.8        | 82      | 23     | 3.80          | 5.03     | 2.42  | .....       | .....         | .....  | 12                     |
| 1890..... | 53.9        | 81      | 24     | 6.33          | 10.18    | 3.40  | 9           | 8             | 14     | 13                     |
| 1891..... | 52.8        | 92      | 18     | 3.44          | 5.57     | 1.88  | 11          | 11            | 9      | 8                      |
| 1892..... | 53.6        | 85      | 21     | 0.52          | 1.09     | 0.04  | 14          | 12            | 5      | 4                      |
| 1893..... | 55.2        | 85      | 17     | 4.22          | 6.59     | 1.74  | 15          | 7             | 9      | 7                      |
| 1894..... | 55.3        | 87      | 27     | 5.67          | 8.23     | 3.90  | 12          | 7             | 12     | 10                     |
| 1895..... | 49.9        | 83      | 18     | 3.60          | 5.53     | 1.62  | 19          | 7             | 5      | 5                      |
| 1896..... | 51.5        | 82      | 21     | 2.24          | 4.58     | 1.72  | 11          | 8             | 12     | 8                      |
| 1897..... | 55.8        | 95      | 22     | 2.43          | 6.49     | 0.87  | 14          | 8             | 9      | 7                      |
| 1898..... | 56.5        | 88      | 24     | 5.76          | 8.42     | 3.92  | 13          | 9             | 9      | 10                     |
| 1899..... | 56.6        | 86      | 18     | 2.72          | 4.65     | 1.07  | 13          | 10            | 8      | 6                      |
| 1900..... | 59.9        | 92      | 19     | 3.70          | 6.59     | 1.47  | 10          | 8             | 13     | 10                     |
| 1901..... | 54.4        | 82      | 21     | 1.93          | 4.45     | 0.87  | 17          | 8             | 6      | 4                      |
| 1902..... | 56.0        | 80      | 20     | 6.39          | 9.35     | 3.82  | 15          | 7             | 9      | 8                      |
| 1903..... | 55.9        | 86      | 24     | 8.92          | 16.19    | 4.17  | 13          | 9             | 9      | 8                      |
| 1904..... | 51.9        | 89      | 15     | 3.78          | 7.01     | 1.50  | 20          | 6             | 5      | 5                      |
| 1905..... | 55.5        | 90      | 17     | 2.71          | 4.83     | 0.75  | 18          | 7             | 6      | 7                      |
| 1906..... | 55.0        | 80      | 11     | 4.46          | 7.14     | 2.66  | 8           | 9             | 14     | 11                     |
| 1907..... | 50.6        | 80      | 18     | 4.46          | 7.18     | 2.70  | 22          | 5             | 4      | 7                      |
| 1908..... | 57.3        | 92      | 19     | 2.71          | 5.14     | 1.30  | 15          | 5             | 11     | 8                      |
| 1909..... | 51.2        | 84      | 18     | 1.18          | 1.82     | 0.40  | 17          | 7             | 7      | 8                      |
| 1910..... | 57.2        | 90      | 18     | 3.15          | 5.55     | 1.55  | 15          | 8             | 8      | 7                      |
| 1911..... | 53.9        | 80      | 18     | 5.49          | 8.23     | 2.61  | 10          | 9             | 12     | 12                     |
| 1912..... | 57.0        | 88      | 25     | 3.30          | 6.95     | 1.72  | 17          | 8             | 6      | 5                      |
| 1913..... | 57.0        | 83      | 25     | 7.79          | 13.84    | 2.70  | 12          | 9             | 10     | 11                     |
| 1914..... | 58.1        | 88      | 19     | 1.99          | 3.08     | 0.90  | 13          | 9             | 9      | 5                      |
| 1915..... | 56.2        | 84      | 23     | 3.03          | 5.18     | 1.89  | 17          | 7             | 7      | 9                      |
| 1916..... | 55.1        | 92      | 23     | 1.37          | 2.88     | 0.51  | 18          | 8             | 5      | 4                      |
| 1917..... | 50.7        | 84      | 22     | 6.99          | 9.74     | 4.28  | 15          | 8             | 8      | 10                     |
| 1918..... | 57.0        | 84      | 22     | 1.25          | 2.36     | 0.74  | 16          | 9             | 6      | 8                      |
| 1919..... | 59.0        | 87      | 25     | 3.43          | 4.97     | 2.01  | 9           | 8             | 14     | 13                     |
| 1920..... | 59.0        | 92      | 28     | 1.80          | 4.53     | 0.55  | 20          | 5             | 6      | 5                      |
| 1921..... | 54.1        | 82      | 16     | 0.97          | 2.18     | 0.33  | 18          | 7             | 6      | 7                      |
| 1922..... | 56.6        | 92      | 18     | 1.48          | 2.70     | 0.55  | 19          | 6             | 7      | 8                      |
| 1923..... | 53.9        | 81      | 21     | 4.25          | 6.37     | 2.35  | 16          | 8             | 2      | 1                      |
| 1924..... | 54.4        | 84      | 16     | 0.31          | 2.76     | 7     | 23          | 6             | 2      | 1                      |
| 1925..... | 49.1        | 84      | 12     | 4.59          | 5.78     | 3.88  | 9           | 9             | 13     | 11                     |
| 1926..... | 53.1        | 90      | 17     | 4.08          | 6.03     | 1.79  | 13          | 8             | 10     | 11                     |
| 1927..... | 56.8        | 94      | 23     | 7.82          | 14.07    | 2.81  | 18          | 5             | 8      | 10                     |



## Climatological Data for October, 1927

| Stations                                    | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation, in inches |       |                           |                      | No. of days               |                             |       |            | Prevailing direction of wind | Observers |                                                                                                                            |
|---------------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|--------------------------|-------|---------------------------|----------------------|---------------------------|-----------------------------|-------|------------|------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------|
|                                             |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation 01 in or more | Clear | Pt. cloudy |                              |           | Cloudy                                                                                                                     |
| <i>The Highlands and Kittatinny Valley.</i> |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                             |       |            |                              |           |                                                                                                                            |
| Belvidere.....                              | Warren.....     | 289             | 36                      | 56.3                         | +2.5                      | 94      | 2     | 30     | 31    | 38                       | 6.92  | +3.25                     | 2.20                 | 0                         | 10                          | 20    | 3          | 8                            | .....     | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                          |
| Charlotteburg..                             | Passaic.....    | 719             | 35                      | 52.8°                        | +1.2                      | .....   | ..... | 26     | 11    | 46                       | 8.47  | +4.00                     | 2.18                 | 0                         | 10                          | 4     | 10         | 17                           | w.        |                                                                                                                            |
| Culvers Lake..                              | Sussex.....     | 848             | 26                      | .....                        | .....                     | .....   | ..... | 31     | 31    | .....                    | 7.06  | +2.88                     | 1.90                 | 0                         | 10                          | 17    | 9          | 5                            | s.        |                                                                                                                            |
| Dover.....                                  | Morris.....     | 600             | 43                      | 54.6°                        | +3.3                      | 89      | 2     | 27     | 31    | 40                       | 7.93  | +3.86                     | 2.25                 | 0                         | 10                          | 14    | 8          | 9                            | .....     |                                                                                                                            |
| Layton.....                                 | Sussex.....     | 480             | 26                      | 54.1                         | +2.6                      | 91      | 1     | 24     | 31    | 44                       | 7.57  | +3.95                     | 1.91                 | 0                         | 9                           | 17    | 4          | 10                           | w.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt                                                       |
| Newton.....                                 | Sussex.....     | 769             | 43                      | 55.6                         | +2.9                      | 91      | 1     | 33     | 31    | 37                       | 7.86  | +4.23                     | 2.32                 | 0                         | 11                          | 14    | 6          | 11                           | sw.       |                                                                                                                            |
| Phillipsburg..                              | Warren.....     | 363             | 44                      | 54.6°                        | +0.7                      | 85      | 2     | 31     | 25    | 36                       | 3.24  | -0.32                     | 1.33                 | 0                         | 10                          | 19    | 3          | 9                            | .....     |                                                                                                                            |
| Sussex.....                                 | Sussex.....     | 442             | 32                      | 55.0°                        | +1.8                      | 92      | 2     | 25     | 31    | 43                       | 6.84  | +3.40                     | .....                | 0                         | 10                          | 20    | 4          | 7                            | w.        |                                                                                                                            |
| Means and extremes..                        | .....           | .....           | .....                   | 54.7                         | +2.1                      | 94      | 2     | 24     | 31    | 46                       | 6.99  | +3.16                     | 2.32                 | 0                         | 10                          | 16    | 6          | 9                            | w.        |                                                                                                                            |
| <i>The Red Sandstone Plain.</i>             |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                             |       |            |                              |           |                                                                                                                            |
| Bergen Point..                              | Hudson.....     | 37              | 30                      | 58.6°                        | +2.4                      | 94      | 2     | 37     | 31    | 32                       | 8.46  | +3.79                     | 3.08                 | 0                         | 10                          | 5     | 22         | 4                            | sw.       | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                           |
| Boonton.....                                | Morris.....     | 400             | 37                      | 54.3                         | +1.5                      | 87      | 1     | 26     | 31    | 41                       | 7.28  | +3.37                     | 2.03                 | 0                         | 11                          | 22    | 0          | 9                            | sw.       |                                                                                                                            |
| Chatham.....                                | Morris.....     | 185             | 23                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 8.88  | +4.67                     | 2.35                 | 0                         | 11                          | 24    | 2          | 5                            | .....     |                                                                                                                            |
| Elizabeth.....                              | Union.....      | 45              | 48                      | 57.6°                        | +2.2                      | 92      | 2     | 29     | 31    | 40                       | 8.44  | +4.55                     | 2.25                 | 0                         | 10                          | 22    | 1          | 8                            | sw.       |                                                                                                                            |
| Flemington.....                             | Hunterdon.....  | 140             | 54                      | 57.4                         | +1.4                      | 92      | 1†    | 30     | 31    | 40                       | 7.93  | +4.27                     | 2.72                 | 0                         | 10                          | 19    | 5          | 7                            | sw.       | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                           |
| Highwood..                                  | Bergen.....     | 90              | 39                      | 55.4                         | +2.0                      | 88      | 2     | 28     | 31    | 38                       | 8.29  | +3.87                     | 2.50                 | 0                         | 10                          | 18    | 5          | 8                            | sw.       |                                                                                                                            |
| Jersey City.....                            | Hudson.....     | 10              | 29                      | 59.3                         | +3.0                      | 90      | 2     | 42     | 30†   | 25                       | 9.41  | +5.73                     | 3.86                 | 0                         | 10                          | 17    | 8          | 6                            | nw.       |                                                                                                                            |
| Lambertville..                              | Hunterdon.....  | 370             | 40                      | 55.8                         | +1.2                      | 86      | 1†    | 34     | 31    | 28                       | 8.29  | -4.81                     | 2.08                 | 0                         | 11                          | 20    | 2          | 9                            | sw.       |                                                                                                                            |
| Little Falls.....                           | Passaic.....    | 180             | 24                      | 56.9                         | +2.0                      | 92      | 2     | 29     | 31    | 43                       | 9.67  | +5.16                     | 2.54                 | 0                         | 10                          | 19    | 4          | 8                            | nw.       | Passaic Consolnd. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson.     |
| New Brunswick..                             | Middlesex.....  | 110             | 74                      | 57.3                         | +2.5                      | 89      | 1†    | 29     | 31    | 36                       | 10.34 | +6.76                     | 3.47                 | 0                         | 10                          | 22    | 2          | 7                            | nw.       |                                                                                                                            |
| New Milford..                               | Bergen.....     | 9               | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 6.66  | .....                     | 1.93                 | 0                         | 10                          | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Paterson.....                               | Passaic.....    | 80              | 56                      | 56.9                         | +1.7                      | 89      | 2     | 34     | 31    | 35                       | 8.52  | +4.43                     | 2.24                 | 0                         | 10                          | 23    | 4          | 4                            | nw.       |                                                                                                                            |
| Plainfield.....                             | Union.....      | 120             | 39                      | 56.2                         | +2.0                      | 91      | 2     | 28     | 31    | 38                       | 8.75  | +4.60                     | 2.25                 | 0                         | 10                          | 17    | 7          | 7                            | nw.       |                                                                                                                            |
| Ridgefield.....                             | Bergen.....     | 80              | 10                      | 56.4                         | .....                     | 91      | 2     | 30     | 31    | 38                       | 8.72  | .....                     | 2.42                 | 0                         | 10                          | 19    | 3          | 9                            | nw.       | George P. Kirsten.<br>H. B. TenEyck.<br>T. R. Fenner.<br>Luther Davis.<br>Hackensack Water Co.                             |
| Somerville.....                             | Somerset.....   | 70              | 44                      | 56.6                         | +2.3                      | 91      | 2     | 27     | 31    | 44                       | 8.04  | +4.60                     | 2.84                 | 0                         | 10                          | 21    | 4          | 6                            | w.        |                                                                                                                            |
| South Orange..                              | Essex.....      | 200             | 57                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | 0                         | 11                          | 16    | 5          | 10                           | nw.       |                                                                                                                            |
| Verona.....                                 | Essex.....      | 490             | 1                       | 55.7                         | .....                     | 86      | 2     | 35     | 31    | 34                       | 8.17  | .....                     | 2.02                 | 0                         | 11                          | 16    | 5          | 10                           | nw.       |                                                                                                                            |
| Woodcliff Lake.                             | Bergen.....     | 100             | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 7.59  | .....                     | 1.92                 | 0                         | 10                          | ..... | .....      | .....                        | .....     |                                                                                                                            |
| New York, N. Y. ....                        | .....           | 365             | 57                      | 58.7                         | +2.4                      | 87      | 2     | 42     | 30    | 24                       | 8.82  | +5.11                     | 3.20                 | 0                         | 10                          | 16    | 8          | 7                            | nw.       | U. S. Weather Bureau.                                                                                                      |
| Means and extremes..                        | .....           | .....           | .....                   | 56.7                         | +2.0                      | 94      | 2     | 26     | 31    | 44                       | 8.44  | +4.66                     | 3.86                 | 0                         | 10                          | 19    | 5          | 7                            | nw.       |                                                                                                                            |
| <i>The Southern Interior.</i>               |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                             |       |            |                              |           |                                                                                                                            |
| Belleplain.....                             | Cape May.....   | 30              | 33                      | 55.4                         | -0.9                      | 90      | 1     | 26     | 31    | 43                       | 4.17  | +0.75                     | 1.38                 | 0                         | 10                          | 18    | 6          | 7                            | nw.       | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.                                                          |
| Bridgeton.....                              | Cumberland..... | 90              | 46                      | 59.2†                        | +1.8                      | 90      | 1     | 34     | 16†   | 40                       | 4.25  | +0.66                     | 1.15                 | 0                         | 10                          | 15    | 8          | 8                            | sw.       |                                                                                                                            |
| Burlington.....                             | Burlington..... | 12              | 54                      | 58.3                         | +0.1                      | 89      | 1†    | 31     | 31    | 38                       | 6.65  | +3.00                     | 1.44                 | 0                         | 11                          | 19    | 4          | 8                            | sw.       |                                                                                                                            |
| Clayton.....                                | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                       | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Hammonton.....                              | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                       | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Hightstown.....                             | Mercer.....     | 120             | 33                      | 57.0                         | +1.8                      | 92      | 2     | 28     | 31    | 40                       | 9.01  | +5.30                     | 2.60                 | 0                         | 11                          | 19    | 4          | 8                            | sw.       | Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                                                |
| Imlaystown.....                             | Monmouth.....   | 115             | 37                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | ..... | .....                     | .....                | .....                     | .....                       | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Indian Mills..                              | Burlington..... | 76              | 38                      | 57.2                         | +1.7                      | 91      | 1†    | 30     | 31    | 42                       | 7.09  | +3.65                     | 1.90                 | 0                         | 11                          | 18    | 4          | 9                            | sw.       |                                                                                                                            |
| Lakewood.....                               | Ocean.....      | 54              | 23                      | 55.0                         | -0.1                      | 87      | 2     | 27     | 31    | 38                       | 12.33 | +8.74                     | 3.75                 | 0                         | 12                          | 20    | 3          | 8                            | sw.       |                                                                                                                            |
| Moorestown.....                             | Burlington..... | 75              | 64                      | 58.4                         | +3.7                      | 91      | 1     | 31     | 31    | 38                       | 6.45  | +2.88                     | 1.45                 | 0                         | 10                          | 21    | 1          | 9                            | nw.       | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                        |
| Northfield..                                | Atlantic.....   | 25              | 20                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                    | 7.27  | +4.49                     | 3.09                 | 0                         | 11                          | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Pleasantville..                             | Atlantic.....   | 26              | 29                      | 57.3                         | .....                     | 88      | 1     | 29     | 31    | 40                       | 7.98  | +4.54                     | 3.46                 | 0                         | 10                          | 23    | 3          | 5                            | sw.       |                                                                                                                            |
| Riverton.....                               | Burlington..... | .....           | 1                       | 56.8                         | .....                     | 88      | 1†    | 32     | 31    | 35                       | 6.25  | .....                     | 1.71                 | 0                         | 11                          | 15    | 5          | 11                           | nw.       |                                                                                                                            |
| Runyon..                                    | Middlesex.....  | 18              | 3                       | 54.9°                        | .....                     | 91      | 2     | 23     | 31    | 45                       | 9.69  | .....                     | 2.29                 | 0                         | 10                          | 18    | 8          | 5                            | w.        | Japanese Beetle Laboratory<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>Mrs. George O. Hickman.<br>H. C. Himes |
| Trenton.....                                | Mercer.....     | 190             | 55                      | 57.8                         | +2.2                      | 88      | 2     | 37     | 31    | 31                       | 7.41  | +4.00                     | 2.73                 | 0                         | 10                          | 16    | 7          | 8                            | sw.       |                                                                                                                            |
| Tuckerton.....                              | Ocean.....      | 23              | 34                      | 58.1                         | +2.0                      | 92      | 1     | 31     | 31    | 37                       | 14.07 | +10.54                    | 4.00                 | 0                         | 11                          | 23    | 4          | 4                            | se.       |                                                                                                                            |
| Vineland.....                               | Cumberland..... | 109             | 58                      | 56.7                         | +0.7                      | 91      | 1     | 31     | 26    | 33                       | 4.52  | +1.18                     | .....                | 0                         | .....                       | ..... | .....      | .....                        | .....     |                                                                                                                            |
| Philadelphia, Pa. ....                      | .....           | 117             | 56                      | 60.4                         | +2.6                      | 89      | 1     | 45     | 15    | 24                       | 5.71  | +2.61                     | 1.78                 | 0                         | 10                          | 18    | 3          | 10                           | sw.       | U. S. Weather Bureau.                                                                                                      |
| Means and extremes..                        | .....           | .....           | .....                   | 57.1                         | +1.3                      | 92      | 1†    | 23     | 31    | 45                       | 7.65  | +4.14                     | 4.00                 | 0                         | 11                          | 19    | 5          | 7                            | sw.       |                                                                                                                            |
| <i>The Sea Coast.</i>                       |                 |                 |                         |                              |                           |         |       |        |       |                          |       |                           |                      |                           |                             |       |            |                              |           |                                                                                                                            |
| Asbury Park.....                            | Monmouth.....   | 22              | 38                      | 58.1                         | +2.3                      | 86      | 1     | 38     | 31    | 30                       | 9.25  | +5.54                     | 2.05                 | 0                         | 11                          | 23    | 4          | 4                            | nw.       | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                             |
| Atlantic City.....                          | Atlantic.....   | 16              | 54                      | 59.2                         | +2.3                      | 80      | 1     | 45     | 15    | 24                       | 7.66  | +4.36                     | 2.78                 | 0                         | 11                          | 18    | 6          | 7                            | w.        |                                                                                                                            |
| Cape May City..                             | Cape May.....   | 17              | 43                      | 60.5                         | +0.9                      | 83      | 1     | 42     | 16    | 26                       | 2.81  | -0.49                     | 1.00                 | 0                         | 8                           | 19    | 4          | 8                            | nw.       |                                                                                                                            |
| Sandy Hook.....                             | Monmouth.....   | 22              | 29                      | 59.2                         | +2.2                      | 86      | 2     | 45     | 31    | 21                       | 9.88  | +6.63                     | 2.76                 | 0                         | 10                          | 18    | 5          | 8                            | w.        |                                                                                                                            |
| Means and extremes..                        | .....           | .....           | .....                   | 59.2                         | +1.9                      | 86      | 1†    | 38     | 31    | 30                       | 7.40  | +4.01                     | 2.78                 | 0                         | 10                          | 19    | 5          | 7                            | nw.       |                                                                                                                            |
| For the State.....                          | .....           | .....           | .....                   | 56.8                         | +1.8                      | 94      | 2     | 23     | 31    | 46                       | 7.82  | +4.10                     | 4.00                 | 0                         | 10                          | 18    | 5          | 8                            | sw.       |                                                                                                                            |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

‡ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc. T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



| Stations                                   | Drainage Basin  | Day of month |   |     |      |   |   |    |     |      |     |    |     |      |      |    |    |      |      |      |     |     |    |    |    |    |    |    |    |    |    |    | Total |
|--------------------------------------------|-----------------|--------------|---|-----|------|---|---|----|-----|------|-----|----|-----|------|------|----|----|------|------|------|-----|-----|----|----|----|----|----|----|----|----|----|----|-------|
|                                            |                 | 1            | 2 | 3   | 4    | 5 | 6 | 7  | 8   | 9    | 10  | 11 | 12  | 13   | 14   | 15 | 16 | 17   | 18   | 19   | 20  | 21  | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |   |     |      |   |   |    |     |      |     |    |     |      |      |    |    |      |      |      |     |     |    |    |    |    |    |    |    |    |    |    |       |
| Belvidere.....                             | Delaware.....   |              |   | .05 | .90  |   |   |    | *   | .41  |     |    | .05 | 1.45 |      |    |    | .23  | 2.20 | 1.43 | .20 |     |    |    |    |    |    |    |    |    |    |    | 6.92  |
| Charlotteburg.....                         | Passaic.....    |              |   | T.  | 2.18 |   |   |    | .06 | .33  |     |    |     | 2.15 |      |    |    | .30  | 1.76 | 1.54 | .12 | .03 |    |    |    |    |    |    |    |    |    |    | 8.47  |
| Culvers Lake.....                          | Delaware.....   |              |   | .01 | 1.09 |   |   |    | .04 | .10  |     |    | T.  | 1.72 |      |    |    | .42  | 1.90 | 1.53 | .25 |     |    |    |    |    |    |    |    |    |    |    | 7.06  |
| Dover.....                                 | Passaic.....    |              |   | *   | 1.78 |   |   |    | .08 | .44  |     |    |     | 1.90 |      |    |    | *    | 2.25 | 1.27 | .21 |     |    |    |    |    |    |    |    |    |    |    | 7.93  |
| Layton.....                                | Delaware.....   |              |   | .36 | 1.31 |   |   |    | .12 | .06  |     |    |     | 1.91 |      |    |    | .39  | 1.86 | 1.38 | .18 |     |    |    |    |    |    |    |    |    |    |    | 7.57  |
| Newton.....                                | Delaware.....   |              |   | .04 | 1.00 |   |   |    | .11 | .17  |     |    |     | .02  | 1.95 |    |    | .43  | 2.32 | 1.50 | .29 | .03 |    |    |    |    |    |    |    |    |    |    | 7.86  |
| Phillipsburg.....                          | do.....         |              |   | .28 | .34  |   |   | T. | .09 | .33  | T.  |    |     | .34  | .99  |    |    | .12  | .36  | .34  | .05 | T.  |    |    |    |    |    |    |    |    |    |    | 3.24  |
| Sussex.....                                | Hudson.....     |              |   | .04 | 1.48 |   |   |    | .07 | .12  | T.  |    |     | .03  | 1.63 |    |    | *    | *    | 3.26 | .16 |     |    |    |    |    |    |    |    |    |    |    | 6.84  |
| <i>The Red Sandstone Plain.</i>            |                 |              |   |     |      |   |   |    |     |      |     |    |     |      |      |    |    |      |      |      |     |     |    |    |    |    |    |    |    |    |    |    |       |
| Bergen Point**.....                        | Coast.....      |              |   | .31 | .80  |   |   |    | .19 | 1.28 |     |    |     | .08  | 1.37 |    |    | 1.24 | 2.15 | .92  | .12 |     |    | T. |    |    |    |    |    |    |    |    | 8.46  |
| Boonton   .....                            | Passaic.....    |              |   | T.  | 1.50 |   |   |    | .06 | .10  | .48 |    |     | 1.35 |      |    |    |      | 1.50 | 2.03 | .21 | .05 | T. |    |    |    |    |    |    |    |    |    | 7.28  |
| Chatham  .....                             | do.....         |              |   |     | 1.87 |   |   |    | .03 | .21  | .70 |    |     | 1.72 | .05  |    |    |      | 1.75 | 2.35 | .11 | .09 |    |    | T. |    |    |    |    |    |    |    | 8.88  |
| Elizabeth.....                             | Coast.....      |              |   |     | 1.38 |   |   |    | .27 | 1.22 |     |    |     | 1.49 |      |    |    | .75  | 2.25 | .93  | .15 |     |    | T. |    |    |    |    |    |    |    |    | 8.44  |
| Flemington.....                            | Raritan.....    |              |   | .04 | 1.35 |   |   |    | .18 | .70  |     |    |     | 1.23 |      |    |    | .56  | 2.72 | .98  | .17 | T.  |    |    |    |    |    |    |    |    |    |    | 7.93  |
| Highwood.....                              | Hackensack..... |              |   | .53 | .95  |   |   |    | .18 | .99  |     |    |     | 1.89 |      |    |    | .62  | 1.97 | .66  | .50 |     |    | T. |    |    |    |    |    |    |    |    | 8.29  |
| Jersey City.....                           | Coast.....      |              |   | .27 | .84  |   |   |    | .24 | 1.30 |     |    |     | 1.40 |      |    |    | 1.35 | 3.01 | .90  | .10 | T.  |    | T. |    |    |    |    |    |    |    |    | 9.41  |
| Lambertville.....                          | Delaware.....   |              |   | .13 | 1.60 |   |   |    | .25 | 1.08 |     |    |     | .02  | 1.25 |    |    | .49  | 2.08 | 1.12 | .25 | .02 | T. |    | T. |    |    |    |    |    |    |    | 8.29  |
| Little Falls.    .....                     | Passaic.....    |              |   |     | 1.83 |   |   |    | .12 | .12  | .44 |    |     | 2.54 |      |    |    |      | 2.40 | 1.92 | .16 | .14 |    |    |    |    |    |    |    |    |    |    | 9.67  |
| New Brunswick.....                         | Raritan.....    |              |   | T.  | 1.64 |   |   |    | .32 | 1.26 |     |    |     | 1.73 |      |    |    | 1.00 | 3.47 | .81  | .11 |     |    |    |    |    |    |    |    |    |    |    | 10.34 |
| New Milford.**.....                        | Hackensack..... |              |   | .56 | 1.09 |   |   |    | .10 | .55  |     |    |     | 1.93 |      |    |    | .64  | 1.20 | .50  | .09 |     |    |    |    |    |    |    |    |    |    |    | 6.66  |
| Paterson.....                              | Passaic.....    |              |   | *.  | 1.55 |   |   |    | .14 | .51  |     |    |     | 1.94 |      |    |    | .68  | 2.24 | 1.24 | .12 | .10 |    |    |    |    |    |    |    |    |    |    |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

[illegible]



## Daily Temperatures for October, 1927

| Stations                             | 1            | 2    | 3    | 4  | 5    | 6    | 7    | 8  | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   | 25   | 26   | 27   | 28   | 29   | 30   | 31   | Mean |      |      |
|--------------------------------------|--------------|------|------|----|------|------|------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| The Highlands and Kittatinny Valley. |              |      |      |    |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Belvidere.....                       | Maximum..... | 89   | 94   | 81 | 79   | 77   | 80   | 83 | 70   | 58   | 66   | 70   | 77   | 71   | 65   | 60   | 69   | 54   | 51   | 51   | 55   | 62   | 65   | 62   | 70   | 69   | 71   | 73   | 75   | 74   | 61   | 65   | 69.3 |      |
|                                      | Minimum..... | 57   | 60   | 61 | 62   | 44   | .... | 51 | 52   | 44   | 41   | 34   | 51   | 54   | 38   | 34   | 34   | 47   | 44   | 46   | 45   | 44   | 38   | 32   | 34   | 34   | 37   | 37   | 37   | 43   | 34   | 30   | 43.8 |      |
| Charlotteburg.....                   | Maximum..... | .... | .... | 80 | 73   | 76   | 74   | 79 | .... | 59   | 59   | 64   | 69   | 69   | 62   | 60   | 62   | 51   | 50   | 54   | 56   | 60   | 63   | 60   | 62   | 63   | 74   | 76   | 79   | 69   | 60   | 63   | 65.2 |      |
|                                      | Minimum..... | 56   | 60   | 59 | 49   | 39   | 38   | 48 | .... | 42   | 29   | 26   | .... | .... | 38   | 35   | 27   | 39   | 42   | 47   | 45   | 48   | 39   | 35   | 31   | 30   | 28   | 38   | 35   | 48   | 30   | .... | 40.4 |      |
| Dover.....                           | Maximum..... | 87   | 89   | 78 | 75   | 74   | 76   | 77 | 67   | 60   | 61   | 61   | 70   | 68   | 59   | 60   | 63   | 57   | 49   | 53   | 54   | 59   | 61   | 60   | 63   | 63   | 70   | 70   | 78   | 68   | .... | 66.4 |      |      |
|                                      | Minimum..... | 61   | 62   | 63 | 53   | 43   | 43   | 55 | 48   | 39   | 35   | 31   | 41   | 51   | 41   | 35   | 31   | 43   | 43   | 46   | 46   | 46   | 41   | 38   | 33   | 34   | 31   | 41   | 38   | 45   | .... | 42.8 |      |      |
| Layton.....                          | Maximum..... | 91   | 90   | 79 | 76   | 76   | 76   | 79 | 70   | 51   | .... | 65   | 74   | 69   | 60   | 61   | 64   | 52   | 49   | 52   | 56   | 58   | 62   | 62   | 64   | 63   | 71   | 75   | 76   | 69   | 60   | 62   | 67.1 |      |
|                                      | Minimum..... | 56   | 56   | 56 | 56   | 41   | 43   | 56 | 49   | 41   | 37   | 30   | 46   | 53   | 34   | 30   | 31   | 47   | 44   | 47   | 43   | 48   | 40   | 35   | 27   | 31   | 30   | 31   | 33   | 52   | 27   | 24   | 41.1 |      |
| Newton.....                          | Maximum..... | 91   | 90   | 79 | 75   | 75   | 77   | 80 | 69   | 48   | 62   | 64   | 74   | 70   | 61   | 59   | 64   | 56   | 52   | 52   | 55   | 58   | 63   | 61   | 65   | 63   | 71   | 77   | 78   | 68   | 56   | 62   | 66.9 |      |
|                                      | Minimum..... | 60   | 65   | 63 | 60   | 48   | 50   | 54 | 45   | 42   | 35   | 34   | 50   | 53   | 38   | 35   | 35   | 46   | 42   | 41   | 45   | 47   | 38   | 40   | 36   | 37   | 35   | 40   | 45   | 50   | 34   | 33   | 44.4 |      |
| Phillipsburg.....                    | Maximum..... | .... | .... | 85 | 78   | 73   | 71   | 75 | 80   | 68   | 50   | .... | 68   | 68   | .... | .... | .... | 50   | 49   | 50   | 56   | .... | 60   | 60   | .... | .... | .... | 73   | 72   | .... | 56   | 62   | 65.2 |      |
|                                      | Minimum..... | 60   | 60   | 60 | 55   | 46   | 45   | 52 | 49   | 42   | 40   | 35   | 49   | 52   | 42   | 38   | 35   | 49   | 47   | 49   | 48   | 49   | 43   | 40   | 36   | 31   | 36   | 37   | 45   | 37   | 32   | 43.9 |      |      |
| Sussex.....                          | Maximum..... | 90   | 92   | 80 | 76   | 77   | 77   | 80 | 71   | 52   | 62   | 66   | 72   | 71   | 63   | 62   | 66   | 54   | .... | 56   | 57   | 62   | 61   | 64   | 63   | 72   | 76   | 76   | 69   | 57   | 62   | 68.5 |      |      |
|                                      | Minimum..... | 57   | 59   | 60 | 61   | 41   | 42   | 53 | 51   | 44   | 39   | 30   | 45   | 54   | 37   | 32   | 29   | .... | 42   | .... | .... | 44   | 42   | 39   | 39   | 29   | 31   | 30   | 33   | 40   | 44   | 32   | 25   | 41.5 |
| The Red Sandstone Plain.             |              |      |      |    |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Bergen Point.....                    | Maximum..... | 89   | 94   | 79 | 76   | 76   | .... | 69 | 61   | 64   | 63   | 71   | 71   | 64   | 62   | 61   | 52   | 56   | 58   | 58   | 60   | 64   | 59   | .... | 63   | 71   | 78   | 76   | .... | 58   | .... | 67.4 |      |      |
|                                      | Minimum..... | 66   | 68   | 65 | 65   | 52   | 52   | 58 | 55   | 48   | 42   | 42   | 55   | 56   | 47   | 45   | 45   | 48   | 48   | 50   | 51   | 52   | 42   | 47   | 44   | 44   | 40   | 46   | 47   | 50   | 41   | 37   | 49.9 |      |
| Boonville.....                       | Maximum..... | 87   | 88   | 79 | 76   | 74   | 75   | 78 | 59   | 56   | 61   | 64   | 72   | 71   | 61   | 63   | 62   | 55   | 51   | 58   | 58   | 59   | 63   | 61   | 65   | 64   | 71   | 73   | 75   | 68   | 59   | 61   | 66.5 |      |
|                                      | Minimum..... | 57   | 58   | 57 | 65   | 44   | 42   | 47 | 56   | 40   | 33   | 30   | 36   | 54   | 39   | 36   | 31   | 36   | 44   | 45   | 44   | 51   | 43   | 39   | 38   | 36   | 30   | 36   | 35   | 41   | 35   | 26   | 42.1 |      |
| Elizabethtown.....                   | Maximum..... | 90   | 92   | 86 | 79   | 77   | 79   | 82 | 75   | 59   | 65   | 65   | 74   | 72   | 65   | 67   | 69   | 56   | 52   | 59   | 59   | 63   | 64   | .... | .... | 72   | 78   | 78   | 68   | 60   | 65   | 70.4 |      |      |
|                                      | Minimum..... | 60   | 62   | 62 | 65   | 45   | 45   | 51 | 55   | 46   | 37   | 35   | 41   | 56   | 40   | .... | 34   | 42   | 43   | 48   | 49   | 48   | 39   | 40   | 35   | 35   | 34   | 38   | 38   | 49   | 40   | 29   | 44.7 |      |
| Flemington.....                      | Maximum..... | 92   | 92   | 81 | 78   | 77   | 78   | 81 | 72   | 56   | 64   | 70   | 75   | 73   | 63   | 67   | 66   | 59   | 51   | 53   | 56   | 62   | 67   | 61   | 70   | 66   | 72   | 78   | 77   | 70   | 64   | 65   | 69.5 |      |
|                                      | Minimum..... | 61   | 61   | 60 | 64   | 47   | 44   | 52 | 56   | 47   | 37   | 36   | 47   | 56   | 43   | 39   | 34   | 44   | 46   | 48   | 50   | 41   | 40   | 40   | 40   | 34   | 38   | 37   | 50   | 38   | 30   | 45.4 |      |      |
| Highwood.....                        | Maximum..... | 84   | 88   | 78 | 75   | 72   | 76   | 80 | 71   | .... | 60   | 61   | 73   | 70   | 62   | 59   | 62   | 54   | 53   | 56   | 56   | 59   | 62   | 59   | 64   | 71   | 67   | 74   | 65   | 57   | 63   | 66.4 |      |      |
|                                      | Minimum..... | 62   | 64   | 65 | 58   | 47   | 47   | 56 | 56   | 46   | 37   | 32   | 43   | 51   | 46   | 35   | 33   | 42   | 46   | 50   | 47   | 47   | 40   | 42   | 33   | 36   | 33   | 38   | 36   | 45   | 35   | 28   | 44.4 |      |
| Jersey City.....                     | Maximum..... | 88   | 90   | 76 | 78   | 73   | 76   | 79 | 69   | 59   | 63   | 61   | 71   | 70   | 62   | 60   | 63   | 56   | 55   | 59   | 59   | 60   | 62   | 61   | 64   | 63   | 69   | 75   | 74   | 66   | 58   | 64   | 67.2 |      |
|                                      | Minimum..... | 66   | 68   | 64 | 60   | 57   | 57   | 60 | 56   | 48   | 45   | 46   | 59   | 59   | 46   | 45   | 47   | 48   | 46   | 48   | 50   | 51   | 44   | 49   | 46   | 46   | 45   | 50   | 49   | 53   | 42   | 41   | 51.4 |      |
| Lambertville.....                    | Maximum..... | 86   | 86   | 81 | 74   | 72   | 74   | 77 | 69   | 55   | 61   | 66   | 72   | 69   | 58   | 59   | 60   | 54   | 51   | 51   | 55   | 58   | 60   | 58   | 62   | 61   | 67   | 70   | 71   | 67   | 52   | 61   | 65.1 |      |
|                                      | Minimum..... | 63   | 65   | 64 | 57   | 50   | 55   | 54 | 46   | 42   | 38   | 50   | 53   | 52   | 37   | 38   | 43   | 43   | 47   | 48   | 50   | 39   | 41   | 40   | 43   | 40   | 45   | 45   | 47   | 41   | 67   | 52   | 61   |      |
| Little Falls.....                    | Maximum..... | 90   | 92   | 82 | 79   | 77   | 79   | 82 | 62   | 62   | 64   | 68   | 73   | 73   | 64   | 65   | 66   | 55   | 52   | 59   | 58   | 62   | 64   | 62   | 68   | 66   | 73   | 76   | 80   | 77   | 67   | 64   | 66.6 |      |
|                                      | Minimum..... | 60   | 61   | 63 | 66   | 46   | 44   | 52 | 53   | 46   | 36   | 33   | 41   | 56   | 44   | 37   | 33   | 42   | 45   | 46   | 47   | 50   | 46   | 40   | 34   | 35   | 33   | 39   | 37   | 46   | 32   | 65   | 69.4 |      |
| New Brunswick.....                   | Maximum..... | 89   | 89   | 85 | 77   | 74   | 77   | 80 | 74   | 55   | 62   | 64   | 74   | 71   | 62   | 62   | 64   | 63   | 51   | 54   | 57   | 61   | 63   | 59   | 64   | 63   | 71   | 75   | 74   | 67   | 62   | 69   | 64.6 |      |
|                                      | Minimum..... | 65   | 66   | 63 | 66   | 49   | 48   | 57 | 55   | 46   | 38   | 38   | 48   | 48   | 38   | 35   | 33   | 45   | 48   | 49   | 52   | 43   | 41   | 38   | 39   | 35   | 42   | 41   | 51   | 34   | 29   | 46.6 |      |      |
| Faterson.....                        | Maximum..... | 85   | 89   | 79 | 76   | 73   | 76   | 80 | 71   | 57   | 60   | 61   | 71   | 68   | 61   | 60   | 63   | 55   | 50   | 55   | 56   | 58   | 63   | 60   | 63   | 63   | 71   | 70   | 76   | 66   | 58   | 63   | 66.4 |      |
|                                      | Minimum..... | 63   | 65   | 64 | 65   | .... | 50   | 55 | 57   | 47   | 39   | 37   | 45   | 58   | 44   | 40   | 37   | 45   | 46   | 52   | 49   | 50   | 43   | 44   | 39   | 40   | 38   | 44   | 41   | 52   | 40   | 34   | 47.4 |      |
| Plainfield.....                      | Maximum..... | 89   | 91   | 82 | 79   | 75   | 79   | 82 | 69   | 59   | 66   | 63   | 76   | 71   | 63   | 60   | 64   | 56   | 55   | 60   | 59   | 62   | 62   | 62   | 63   | 63   | 68   | 73   | 75   | 67   | 57   | 64   | 68.2 |      |
|                                      | Minimum..... | 61   | 61   | 62 | 62   | 45   | 43   | 51 | 54   | 48   | 37   | 34   | 43   | 58   | 40   | 38   | 34   | 42   | 46   | 46   | 50   | 50   | 40   | 39   | 35   | 36   | 32   | 38   | 37   | 47   | 32   | 28   | 44.2 |      |
| Ridgefield.....                      | Maximum..... | 88   | 91   | 79 | 78   | 76   | 78   | 82 | 66   | 53   | 64   | 63   | 73   | 71   | 63   | 63   | 63   | 55   | 52   | 56   | 58   | 59   | 64   | 60   | 65   | 65   | 72   | 69   | 77   | 68   | 58   | 63   | 67.5 |      |
|                                      | Minimum..... | 64   | 66   | 64 | 54   | 49   | 49   | 56 | 53   | 42   | 38   | 35   | 47   | 54   | 42   | 39   | 35   | 44   | 46   | 49   | 47   | 45   | 40   | 45   | 36   | 39   | 36   | 43   | 39   | 45   | 34   | 30   | 45.3 |      |
| Somerville.....                      | Maximum..... | 90   | 91   | 83 | 78   | 77   | 80   | 82 | 72   | 57   | 65   | 65   | 76   | 72   | 63   | 66   | 66   | 59   | 50   | 55   | 56   | 62   | 65   | 63   | 64   | 67   | 71   | 78   | 79   | 71   | 66   | 64   | 69.5 |      |
|                                      | Minimum..... | 58   | 59   | 60 | 66   | 42   | 41   | 51 | 56   | 47   | 36   | 33   | 49   | 56   | 39   | 37   | 32   | 41   | 46   | 49   | 49   | 49   | 40   | 37   | 35   | 35   | 32   | 35   | 35   | 46   | 37   | 27   | 43.7 |      |
| South Orange.....                    | Maximum..... | .... | .... | 86 | 75   | 74   | 70   | 73 | 77   | 68   | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |      |
|                                      | Minimum..... | 83   | 86   | 75 | 74   | 70   | 73   | 77 | 68   | 53   | 59   | 59   | 70   | 67   | 59   | 57   | 61   | 54   | 49   | 56   | 55   | 58   | 60   | 59   | 62   | 61   | 68   | 71   | 74   | 64   | 54   | 61   | 64.4 |      |
| Paterson.....                        | Maximum..... | 64   | 66   | 65 | 61   | 49   | 52   | 57 | 53   | 45   | 41   | 39   | 51   | 65   | 43   | 39   | 39   | 45   | 44   | 48   | 48   | 49   | 42   | 43   | 38   | 40   | 38   | 39   | 40   | 52   | 37   | 35   | 47.0 |      |
|                                      | Minimum..... | 85   | 87   | 74 | 76   | 72   | 74   | 78 | 68   | 58   | 60   | 60   | 68   | 68   | 61   | 58   | 61   | 56   | 54   | 58   | 58   | 62   | 60   | 64   | 62   | 68   | 74   | 73   | 65   | 58   | 63   | 65.8 |      |      |
| New York, N. Y.....                  | Maximum..... | 66   | 68   | 64 | 61   | 57   | 58   | 61 | 56   | 47   | 45   | 48   | 60   | 55   | 46   | 45   | 48   | 48   | 46   | 48   | 50   | 48   | 44   | 51   | 47   | 47   | 46   | 50   | 50   | 53   | 42   | 44   | 51.6 |      |
| The Southern Interior.               |              |      |      |    |      |      |      |    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Belleplain.....                      | Maximum..... | 90   | 87   | 80 | 79   | 77   | 78   | 81 | 71   | 56   | 70   | 69   | 75   | 71   | 62   | 66   | 69   | 60   | 58   | 56   | 60   | 63   | 65   | 66   | 69   | 69   | 69   | 73   | 73   | 74   | 62   | 69   | 69.9 |      |
|                                      | Minimum..... | 66   | 65   | 51 | 52   | 37   | 36   | 49 | 53   | 48   | 31   | 33   | 43   | 43   | 36   | 35   | 28   | 30   | 47   | 46   | 45   | 49   | 39   | 38   | 38   | 37   | 29   | 31   | 39   | 41   | 29   | 26   | 41.0 |      |
| Bridgeton.....                       | Maximum..... | 90   | 84   | 82 | 75   | 76   | 79   | 81 | 70   | 56   | 67   | 70   | 75   | 70   | .... | .... | .... | .... | .... | 62   | 62   | 65   | 65   | 69   | 70   | 66   | 73   | 76   | 77   | .... | 73   | 72.2 |      |      |
|                                      | Minimum..... | 72   | 67   | 62 | .... | 47   | 44   | 57 | 56   | 49   | 36   | 42   | 54   | 54   | 38   | 40   | 34   | 34   | .... | .... | .... | 50   | .... | 41   | 42   | 44   | 35   | 36   | 42   | 47   | 43   | 34   | 46.2 |      |
| Burlington.....                      | Maximum..... | 89   | 89   | 74 | 77   | 75   | 78   | 81 | 76   | 57   | 66   | 69   | 76   | 71   | 65   | 61   | 65   | 63   | 55   | 58   | 58   | 61   | 62   | 62   | 66   | 64   | 69   | 74   | 72   | 71   | 67   | 69   | 69.1 |      |
|                                      | Minimum..... | 65   | 64   | 61 | 68   | 47   | 46   | 52 | 56   | 48   | 38   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

<sup>a, b, c, etc.,</sup> indicate, respectively, 1, 2, 3, etc., days missing from the record.      §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

## Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

|                 |   |                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|-----------------|---|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| Pleasantville** | { | Evaporation..... | .128 | .192 | .044 | .208 | .176 | .144 | .160 | .044 | .030 | .080 | .064 | *    | .184 | .128 | .160 | .080 | .118 | .004 | .062 | .074 | .144 | .112 | .064 | .064 | .096 | .096 | .064 | .112 | .112 | .080 | .080 | 3.104 |       |
|                 | { | Wind movement.   |      |      | 18   | 128  | 47   | 27   | 33   | 51   | 68   | 48   | 21   | 56   | 174  | 39   | 50   | 36   | 27   | 111  | 115  | 41   | 85   | 87   | 46   | 50   | 36   | 39   | 30   | 26   | 21   | 56   | 27   | 51    | 1.690 |
| Runyon.....     | { | Evaporation..... | .160 | .160 | .140 | .220 | .145 | .150 | .150 | .070 | .040 | .124 | .140 | .000 | .030 | .120 | .150 | .145 | .050 | .090 | .050 | .010 | .060 | .120 | .135 | .140 | .140 | .150 | .150 | .145 | .120 | .150 | .140 | 3.594 |       |
|                 | { | Wind movement.   | 47   | 47   | 75   | 80   | 40   | 44   | 41   | 37   | 45   | 23   | 21   | 104  | 96   | 31   | 27   | 38   | 72   | 50   | 79   | 63   | 48   | 42   | 30   | 51   | 27   | 23   | 24   | 26   | 38   | 35   | 26   | 1.439 |       |

Note: Evaporation determined by measuring amount returned to pan to maintain standard level, less precipitation record.  
 \*\*Observations taken in the morning, and entered on preceding day.

\* Measurement included in next following



51.05  
NNJU. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.  
CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

Vol. XXXII.

NOVEMBER, 1927.

No. 11

## GENERAL SUMMARY.

Remarkably warm weather prevailed during November, there were eleven days with temperatures slightly subnormal, but the remainder were warm, ranging to twenty degrees above normal, and were continuous for long periods of consecutive days. It has been exceeded by only two Novembers since the compilation of State records commenced in 1885, viz. those of 1896 and 1902.

There was a slight deficiency of sunshine, and a relative excess of cloudiness and rainfall, together with a trifling amount of snow. The cool days were from the 4th to the 11th, 13th and 19th to 21st. The frequency of rain was slightly above normal, and the storms of the 3d and 17th were notably heavy. The warmth and moisture contributed to a very late date for plant growth, and there were scattered occurrences of roses in bloom almost to the close of the month, from central counties southward. Grass and grain were growing with remarkable luxuriance at the close of the month, and there were indications of the swelling of tree buds. The level of ground water was very high, and the mean stage of the Delaware River at Trenton was higher than any previous November record. Wells, springs and ponds were very full, and out door work was hindered because of the ground being too wet.

The accumulation of warmth and moisture for the eleven months of the year are slightly above normal.

Storm warnings were displayed along shore on the 3d, 17th and 30th.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 38 stations, was 47.9°, which was 5.0° above normal. The highest temperature was 78° at several stations on the 1st and 2d, and the lowest, 15°, at Runyon on the 20th. The greatest daily range of temperature was 50° at Runyon on the 14th. The highest monthly mean temperature was 51.8° at Vineland, and the lowest, 43.6° at Boonton.

The temperature departure from the normal for the year, 1927, to date, by sections, is: The Highlands, +0.4°; Red Sandstone Plain, 0.0°; Southern Interior, +0.4°; Sea Coast, +0.5°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 43 stations, was 4.02 inches, which was 0.94 inch above normal. The average total snowfall at eighteen selected stations was 0.1 inch, which was 1.1 inches below normal.

The greatest monthly precipitation was 8.68 inches, at Charlotteburg, and the least, 1.74 inches at Bridgeton. The greatest amount of precipitation in any 24 consecutive hours was 3.45 inches at Charlotteburg on the 17-18th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 11, or 3 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, +4.10 inches; Red Sandstone Plain, +5.50 inches; Southern Interior, -1.18 inches; Sea Coast, -0.79 inch.

## WIND.

The prevailing wind direction was from the southwest. The wind movement averaged 13 miles per hour, which was 1 mile below normal. The highest velocity, sustained for 5 consecutive minutes, was 60 miles per hour from the south at Sandy Hook on the 17th. High winds also occurred on the 3d, 6th, 18th and 30th.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 10, which was 2 less than normal; partly cloudy, 8, or normal; cloudy, 12, or 2 more than normal. The per cent of possible sunshine was 48, which was 10 per cent below normal.

## MISCELLANEOUS.

The mean stage of the Delaware River at Phillipsburg was 7.4 feet, and the highest stage, 15.0 feet on the 19th. At Trenton the mean daily stage was 4.1 feet, which was 2.3 feet above normal. The highest stage, 8.3 feet on the 19th.

The mean atmospheric pressure, reduced to sea level, was 30.10 inches, which was normal. The highest reading was 30.73 inches at Atlantic City and Trenton on the 13th and the lowest, 29.10 inches at Sandy Hook on the 4th.

Dense fog occurred on the 1st, 2d, 9th, 12th, 15th, 29th and 30th. Thunderstorms were noted on the 3d, 11th, 16th, 17th and 18th. A lunar halo was observed on the 7th.

## COMPARATIVE DATA FOR NOVEMBER

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 44.8        | 76      | 18     | 4.53          | 7.90      | 2.72  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 44.5        | 73      | 17     | 4.49          | 6.24      | 3.45  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 41.5        | 72      | 13     | 1.94          | 2.60      | 0.95  | .....    | .....       | .....         | .....  | 6                      |
| 1888..... | 45.8        | 77      | 8      | 3.97          | 5.41      | 2.66  | .....    | .....       | .....         | 13     | 10                     |
| 1889..... | 45.7        | 69      | 13     | 8.48          | 11.45     | 4.70  | .....    | .....       | .....         | 13     | 13                     |
| 1890..... | 43.8        | 74      | 11     | 0.82          | 1.10      | 0.38  | .....    | 13          | 12            | 5      | 8                      |
| 1891..... | 42.2        | 70      | 6      | 2.39          | 3.47      | 1.54  | .....    | 12          | 10            | 8      | 4                      |
| 1892..... | 41.9        | 71      | 12     | 7.29          | 9.49      | 4.74  | .....    | 8           | 9             | 13     | 11                     |
| 1893..... | 41.8        | 70      | 11     | 3.48          | 4.53      | 2.19  | .....    | 10          | 11            | 9      | 7                      |
| 1894..... | 40.3        | 76      | 11     | 3.34          | 5.12      | 1.77  | .....    | 13          | 7             | 10     | 10                     |
| 1895..... | 45.7        | 80      | 12     | 3.17          | 5.10      | 1.56  | 0        | 12          | 7             | 11     | 10                     |
| 1896..... | 48.2        | 78      | 12     | 3.05          | 5.68      | 1.37  | 3.2      | 9           | 9             | 12     | 8                      |
| 1897..... | 43.8        | 74      | 10     | 4.59          | 5.95      | 2.42  | 1.3      | 8           | 11            | 11     | 12                     |
| 1898..... | 42.4        | 70      | 11     | 6.76          | 9.07      | 3.83  | 14.7     | 10          | 9             | 11     | 14                     |
| 1899..... | 44.0        | 71      | 17     | 2.29          | 4.32      | 0.72  | 1.1      | 15          | 8             | 7      | 7                      |
| 1900..... | 47.5        | 79      | 15     | 3.43          | 5.54      | 1.82  | T.       | 9           | 10            | 11     | 9                      |
| 1901..... | 58.5        | 69      | 10     | 2.38          | 4.23      | 1.18  | 0.8      | 12          | 9             | 9      | 6                      |
| 1902..... | 49.3        | 80      | 20     | 2.20          | 4.17      | 0.87  | 0.2      | 10          | 11            | 9      | 8                      |
| 1903..... | 39.9        | 79      | 3      | 1.26          | 2.03      | 0.75  | T.       | 16          | 8             | 6      | 6                      |
| 1904..... | 40.2        | 69      | 6      | 2.18          | 3.40      | 1.30  | 1.6      | 12          | 10            | 8      | 6                      |
| 1905..... | 42.1        | 70      | 6      | 1.84          | 2.86      | 0.54  | 0.1      | 12          | 10            | 8      | 6                      |
| 1906..... | 43.6        | 70      | 8      | 1.61          | 2.52      | 1.06  | 2.3      | 16          | 7             | 7      | 6                      |
| 1907..... | 43.5        | 68      | 13     | 5.65          | 6.95      | 4.19  | 0.8      | 10          | 8             | 12     | 13                     |
| 1908..... | 43.1        | 72      | 2      | 0.96          | 1.29      | 0.35  | 2.2      | 14          | 8             | 8      | 4                      |
| 1909..... | 46.4        | 80      | 12     | 2.36          | 4.33      | 1.32  | 2.1      | 13          | 8             | 9      | 8                      |
| 1910..... | 40.4        | 71      | 13     | 3.79          | 5.73      | 1.63  | 1.4      | 5           | 13            | 12     | 9                      |
| 1911..... | 41.3        | 73      | 13     | 5.17          | 6.50      | 3.17  | 1.7      | 8           | 11            | 11     | 10                     |
| 1912..... | 45.3        | 76      | 11     | 3.43          | 8.12      | 2.02  | 1.3      | 15          | 8             | 7      | 6                      |
| 1913..... | 46.2        | 77      | 21     | 2.71          | 4.89      | 1.00  | T.       | 14          | 7             | 9      | 7                      |
| 1914..... | 43.3        | 80      | 6      | 2.60          | 4.81      | 1.21  | 0.7      | 16          | 8             | 6      | 6                      |
| 1915..... | 44.0        | 75      | 17     | 1.69          | 3.11      | 0.96  | 0        | 14          | 8             | 8      | 8                      |
| 1916..... | 43.3        | 75      | 12     | 2.11          | 3.81      | 0.80  | T.       | 16          | 5             | 9      | 8                      |
| 1917..... | 39.8        | 68      | 9      | 0.66          | 1.15      | 0.28  | 0.7      | 19          | 5             | 6      | 3                      |
| 1918..... | 43.9        | 71      | 12     | 1.87          | 3.05      | 0.49  | 0        | 14          | 6             | 10     | 7                      |
| 1919..... | 43.7        | 76      | 13     | 3.74          | 6.13      | 1.98  | T.       | 13          | 7             | 10     | 11                     |
| 1920..... | 43.0        | 74      | 12     | 4.41          | 7.90      | 2.14  | 0.2      | 9           | 6             | 15     | 10                     |
| 1921..... | 44.3        | 79      | 18     | 4.26          | 6.69      | 2.79  | 0.1      | 9           | 6             | 15     | 14                     |
| 1922..... | 44.3        | 73      | 13     | 0.91          | 1.56      | 0.49  | 0.2      | 13          | 8             | 9      | 6                      |
| 1923..... | 43.1        | 72      | 11     | 2.51          | 4.09      | 1.10  | 0        | 11          | 8             | 11     | 7                      |
| 1924..... | 42.9        | 77      | 1      | 2.03          | 3.23      | 1.17  | 1.3      | 14          | 8             | 8      | 5                      |
| 1925..... | 42.0        | 76      | 10     | 3.40          | 5.10      | 2.43  | 0.7      | 14          | 8             | 8      | 9                      |
| 1926..... | 42.5        | 76      | 8      | 4.04          | 7.19      | 2.44  | T.       | 13          | 8             | 9      | 9                      |
| 1927..... | 47.9        | 78      | 15     | 4.02          | 8.68      | 1.74  | 0.1      | 10          | 8             | 12     | 11                     |



## Climatological Data for November, 1927

| Stations                             | Counties   | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |      |        |      | Precipitation, in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                                                                                                                      |
|--------------------------------------|------------|-----------------|-------------------------|------------------------------|---------------------------|---------|------|--------|------|--------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------|
|                                      |            |                 |                         | Mean                         | Departure from the normal | Highest | Date | Lowest | Date | Greatest daily range     | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear |                              |           | Pt. cloudy | Cloudy                                                                                                               |
| The Highlands and Kittatinny Valley. |            |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Belvidere.....                       | Warren     | 289             | 36                      | 45.4                         | +4.3                      | 72      | 1    | 23     | 14   | 34                       | 5.71  | +2.47                     | 2.39                 | T.                        | 12                           | 10    | 4                            | 16        | .....      | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                    |
| Charlotteburg...†                    | Passaic    | 719             | 35                      | 45.6 <sup>b</sup>            | +5.5                      | 78      | 1    | 20     | 14†  | 42                       | 8.68  | +5.16                     | 3.45                 | T.                        | 10                           | 2     | 4                            | 24        | sw.        |                                                                                                                      |
| Culvers Lake...†                     | Sussex     | 848             | 26                      | 45.4                         | +5.3                      | 72      | 1    | 22     | 20†  | 35                       | 6.76  | +3.96                     | 2.45                 | 0.7                       | 12                           | 8     | 6                            | 16        | e.         |                                                                                                                      |
| Dover.....                           | Morris     | 600             | 43                      | 45.4 <sup>a</sup>            | +5.3                      | 72      | 1    | 21     | 20   | 35                       | 8.19  | +4.55                     | 2.80                 | 0.3                       | 15                           | 4     | 13                           | 13        | .....      |                                                                                                                      |
| Layton.....                          | Sussex     | 480             | 26                      | 44.0                         | +5.2                      | 73      | 1†   | 17     | 20   | 38                       | 5.99  | +3.50                     | 2.52                 | T.                        | 11                           | 10    | 2                            | 18        | sw.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                |
| Newton.....                          | Sussex     | 769             | 43                      | 45.1                         | +4.6                      | 72      | 1    | 23     | 8†   | 37                       | 6.03  | +2.90                     | 2.67                 | 0.2                       | 14                           | 5     | 4                            | 21        | sw.        |                                                                                                                      |
| Phillipsburg.....                    | Warren     | 363             | 44                      | 44.6 <sup>b</sup>            | +3.4                      | 70      | 16   | 25     | 14   | 29                       | 4.30  | +1.10                     | 1.96                 | T.                        | 12                           | 12    | 5                            | 13        | .....      |                                                                                                                      |
| Sussex.....                          | Sussex     | 442             | 32                      | 45.0                         | +3.9                      | 72      | 1    | 19     | 20   | 39                       | 7.90  | +4.65                     | 2.90                 | T.                        | 14                           | 8     | 8                            | 14        | w.         |                                                                                                                      |
| Means and extremes.....              |            |                 |                         | 45.1                         | +4.7                      | 78      | 1    | 17     | 20   | 42                       | 6.70  | +3.54                     | 3.45                 | 0.2                       | 12                           | 7     | 6                            | 17        | sw.        |                                                                                                                      |
| The Red Sandstone Plain.             |            |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Bergen Point...†                     | Hudson     | 37              | 30                      | 48.8 <sup>a</sup>            | +5.1                      | 74      | 1    | 28     | 20   | 28                       | 3.62  | +0.35                     | 1.47                 | T.                        | 9                            | 4     | 15                           | 11        | se.        | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                     |
| Boonton.....                         | Morris     | 400             | 37                      | 43.6                         | +2.2                      | 70      | 1†   | 21     | 21   | 41                       | 4.03  | +0.46                     | 1.52                 | .....                     | 13                           | 14    | 0                            | 16        | sw.        |                                                                                                                      |
| Chatham.....                         | Morris     | 185             | 23                      | 43.6                         | +2.2                      | 70      | 1    | 21     | 20   | 41                       | 3.67  | +0.77                     | 1.28                 | .....                     | 14                           | 15    | 10                           | 5         | .....      |                                                                                                                      |
| Elizabeth.....                       | Union      | 45              | 48                      | 47.7 <sup>d</sup>            | +4.2                      | 78      | 1    | 21     | 20   | 41                       | 2.99  | -0.26                     | 1.02                 | T.                        | 11                           | 11    | 9                            | 10        | sw.        |                                                                                                                      |
| Flemington.....                      | Hunterdon  | 140             | 34                      | 47.5                         | +4.6                      | 75      | 1    | 25     | 10†  | 35                       | 5.43  | +2.31                     | 2.08                 | 0                         | 13                           | 12    | 7                            | 11        | sw.        | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                     |
| Highwood...†                         | Bergen     | 90              | 39                      | 46.4                         | +4.4                      | 71      | 1†   | 21     | 20   | 32                       | 4.99  | +1.49                     | 2.31                 | 0.1                       | 11                           | 6     | 4                            | 20        | sw.        |                                                                                                                      |
| Jersey City.....                     | Hudson     | 10              | 29                      | 48.6                         | +4.6                      | 71      | 16†  | 28     | 20   | 26                       | 3.97  | +0.78                     | 1.60                 | T.                        | 13                           | 6     | 10                           | 14        | sw.        |                                                                                                                      |
| Lambertville.....                    | Hunterdon  | 370             | 40                      | 47.6                         | +4.4                      | 71      | 2    | 26     | 8†   | 29                       | 4.94  | +1.73                     | 1.78                 | 1.0                       | 12                           | 14    | 1                            | 15        | sw.        |                                                                                                                      |
| Little Falls.....                    | Passaic    | 180             | 34                      | 46.6                         | +4.4                      | 74      | 1    | 24     | 21   | 33                       | 3.92  | +1.02                     | 1.79                 | .....                     | 12                           | 5     | 11                           | 14        | nw.        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson. |
| New Brunswick.....                   | Middlesex  | 110             | 74                      | 48.4                         | +5.0                      | 74      | 2    | 24     | 20   | 34                       | 2.88  | -0.60                     | 0.87                 | 0.2                       | 11                           | 11    | 8                            | 11        | sw.        |                                                                                                                      |
| New Milford...†                      | Bergen     | 9               | 9                       | 47.2                         | +3.7                      | 72      | 1    | 26     | 20   | 28                       | 3.77  | +0.78                     | 1.85                 | .....                     | 11                           | 5     | 10                           | 13        | sw.        |                                                                                                                      |
| Paterson.....                        | Passaic    | 80              | 56                      | 47.2                         | +3.7                      | 72      | 1    | 26     | 20   | 28                       | 3.64  | +0.47                     | 1.79                 | .....                     | 14                           | 15    | 5                            | 10        | sw.        |                                                                                                                      |
| Plainfield.....                      | Union      | 120             | 39                      | 47.1                         | +4.6                      | 73      | 1†   | 21     | 20   | 35                       | 3.08  | -0.29                     | .....                | 0.1                       | 12                           | 5     | 12                           | 13        | sw.        |                                                                                                                      |
| Ridgefield.....                      | Bergen     | 80              | 10                      | 46.4                         | .....                     | 74      | 1    | 24     | 20   | 30                       | 4.73  | .....                     | 1.78                 | T.                        | 11                           | 8     | 9                            | 13        | nw.        | George P. Kirsten.<br>H. B. TenEyck.<br>T. R. Fenner.<br>Luther Davis.<br>Hackensack Water Co.                       |
| Somerville.....                      | Somerset   | 70              | 44                      | 47.4                         | +5.0                      | 75      | 2    | 20     | 20   | 36                       | 3.16  | +0.12                     | 1.43                 | T.                        | 10                           | 12    | 10                           | 8         | w.         |                                                                                                                      |
| South Orange.....                    | Essex      | 200             | 57                      | 46.8                         | .....                     | 70      | 1    | 24     | 20   | 32                       | 3.59  | .....                     | 1.69                 | 0.1                       | 14                           | 8     | 5                            | 17        | nw.        |                                                                                                                      |
| Verona.....                          | Essex      | 490             | 1                       | 46.8                         | .....                     | 70      | 1    | 24     | 20   | 32                       | 4.04  | .....                     | 1.75                 | .....                     | 12                           | 8     | 5                            | 17        | nw.        |                                                                                                                      |
| Woodcliff Lake...†                   | Bergen     | 100             | 9                       | 46.8                         | .....                     | 70      | 1    | 24     | 20   | 32                       | 4.04  | .....                     | 1.75                 | .....                     | 12                           | 8     | 5                            | 17        | nw.        |                                                                                                                      |
| New York, N. Y.....                  |            | 365             | 57                      | 48.6                         | +4.4                      | 70      | 23   | 28     | 20   | 26                       | 3.95  | +0.51                     | 1.68                 | T.                        | 14                           | 5     | 12                           | 13        | sw.        | U. S. Weather Bureau.                                                                                                |
| Means and extremes.....              |            |                 |                         | 47.2                         | +4.4                      | 78      | 1    | 20     | 20   | 41                       | 3.91  | +0.64                     | 2.31                 | 0.1                       | 12                           | 10    | 8                            | 12        | sw.        |                                                                                                                      |
| The Southern Interior.               |            |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Belleplain.....                      | Cape May   | 30              | 33                      | 49.2 <sup>b</sup>            | +4.7                      | 78      | 2    | 16     | 21   | 43                       | 2.08  | -0.53                     | 0.87                 | T.                        | 9                            | 13    | 6                            | 11        | .....      | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.                                                    |
| Bridgeton.....                       | Cumberland | 90              | 46                      | 50.2 <sup>b</sup>            | +4.6                      | 73      | 1†   | 22     | 20   | 34                       | 1.74  | -1.06                     | 0.68                 | 0                         | 7                            | 5     | 16                           | 9         | sw.        |                                                                                                                      |
| Burlington.....                      | Burlington | 12              | 34                      | 50.4                         | +6.0                      | 73      | 1†   | 27     | 20   | 30                       | 3.15  | +0.04                     | 0.90                 | 0.2                       | 12                           | 12    | 5                            | 13        | sw.        |                                                                                                                      |
| Clayton.....                         | Gloucester | 130             | 30                      | 50.4                         | +6.0                      | 73      | 1†   | 27     | 20   | 30                       | 3.15  | +0.04                     | 0.90                 | 0.2                       | 12                           | 12    | 5                            | 13        | sw.        |                                                                                                                      |
| Hammonton.....                       | Atlantic   | 103             | 24                      | 50.6 <sup>b</sup>            | +7.3                      | 77      | 2    | 24     | 8    | 36                       | 3.19  | -0.12                     | 1.29                 | T.                        | 12                           | 13    | 8                            | 9         | sw.        | Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                                          |
| Hightstown.....                      | Mercer     | 120             | 33                      | 50.6 <sup>b</sup>            | +7.3                      | 77      | 2    | 24     | 8    | 36                       | 3.19  | -0.12                     | 1.29                 | T.                        | 12                           | 13    | 8                            | 9         | sw.        |                                                                                                                      |
| Imlaytown.....                       | Monmouth   | 115             | 37                      | 50.6 <sup>b</sup>            | +7.3                      | 77      | 2    | 24     | 8    | 36                       | 3.19  | -0.12                     | 1.29                 | T.                        | 12                           | 13    | 8                            | 9         | sw.        |                                                                                                                      |
| Indian Mills...†                     | Burlington | 76              | 38                      | 50.5 <sup>d</sup>            | +7.1                      | 78      | 2    | 22     | 20†  | 40                       | 2.93  | -0.15                     | 1.20                 | 0.5                       | 10                           | 7     | 10                           | 13        | sw.        |                                                                                                                      |
| Lakewood.....                        | Ocean      | 54              | 23                      | 48.5                         | +5.7                      | 75      | 2    | 24     | 14†  | 33                       | 4.06  | +1.60                     | 1.50                 | T.                        | 11                           | 11    | 7                            | 12        | sw.        | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                  |
| Moorestown.....                      | Burlington | 75              | 64                      | 49.2                         | +6.0                      | 78      | 2    | 24     | 20†  | 37                       | 3.04  | -0.21                     | 0.95                 | 0.2                       | 9                            | 12    | 9                            | 9         | nw.        |                                                                                                                      |
| Northfield...†                       | Atlantic   | 25              | 20                      | 47.4                         | .....                     | 76      | 12   | 18     | 20   | 45                       | 2.32  | -0.29                     | 1.05                 | .....                     | 7                            | 15    | 8                            | 7         | sw.        |                                                                                                                      |
| Pleasantville...†                    | Atlantic   | 26              | 29                      | 47.4                         | .....                     | 76      | 12   | 18     | 20   | 45                       | 2.32  | -0.40                     | 0.93                 | .....                     | 9                            | 15    | 8                            | 7         | sw.        |                                                                                                                      |
| Riverton.....                        | Burlington | 1               | 1                       | 48.7                         | .....                     | 76      | 2    | 26     | 20   | 35                       | 3.43  | .....                     | 1.21                 | T.                        | 9                            | 9     | 7                            | 14        | se.        | Japanese Beetle Laboratory<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>John H. Brown.<br>H. C. Himes    |
| Runyon...†                           | Middlesex  | 18              | 3                       | 46.4 <sup>b</sup>            | .....                     | 77      | 2    | 15     | 29   | 50                       | 3.37  | .....                     | 1.46                 | .....                     | 8                            | 11    | 12                           | 7         | w.         |                                                                                                                      |
| Trenton.....                         | Mercer     | 190             | 55                      | 49.4                         | +5.0                      | 75      | 2    | 27     | 20   | 28                       | 3.57  | +0.14                     | 1.39                 | 0.3                       | 12                           | 7     | 8                            | 15        | sw.        |                                                                                                                      |
| Tuckerton.....                       | Ocean      | 23              | 34                      | 50.4 <sup>a</sup>            | +6.3                      | 77      | 2    | 21     | 20   | 30                       | 3.00  | -0.08                     | 1.40                 | T.                        | 8                            | 14    | 9                            | 7         | sw.        |                                                                                                                      |
| Vineland.....                        | Cumberland | 109             | 58                      | 51.8                         | +7.7                      | 77      | 2    | 23     | 20   | 30                       | 3.38  | +0.27                     | 1.05                 | T.                        | 9                            | 14    | 9                            | 7         | s.         |                                                                                                                      |
| Philadelphia, Pa.....                |            | 117             | 56                      | 50.9                         | +5.2                      | 73      | 2    | 28     | 20   | 22                       | 3.59  | +0.53                     | 1.50                 | 0.3                       | 11                           | 5     | 9                            | 16        | sw.        | U. S. Weather Bureau.                                                                                                |
| Means and extremes.....              |            |                 |                         | 49.5                         | +6.1                      | 78      | 2    | 15     | 20   | 50                       | 2.95  | -0.07                     | 1.50                 | 0.1                       | 9                            | 11    | 9                            | 10        | sw.        |                                                                                                                      |
| The Sea Coast.                       |            |                 |                         |                              |                           |         |      |        |      |                          |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Asbury Park.....                     | Monmouth   | 22              | 38                      | 49.4 <sup>b</sup>            | +4.6                      | 73      | 12   | 27     | 20   | 28                       | 3.85  | +0.93                     | 1.10                 | T.                        | 9                            | 13    | 14                           | 3         | nw.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                       |
| Atlantic City.....                   | Atlantic   | 16              | 54                      | 50.8                         | +5.2                      | 73      | 12   | 28     | 20   | 26                       | 2.20  | -1.03                     | 1.17                 | T.                        | 9                            | 10    | 12                           | 8         | sw.        |                                                                                                                      |
| Cape May City.....                   | Cape May   | 17              | 43                      | 50.5                         | +3.1                      | 72      | 12   | 28     | 21   | 28                       | 2.00  | -1.22                     | 0.81                 | 0                         | 9                            | 9     | 14                           | 7         | nw.        |                                                                                                                      |
| Sandy Hook.....                      | Monmouth   | 22              | 29                      | 49.0                         | +5.6                      | 70      | 1    | 31     | 20   | 25                       | 3.60  | +0.41                     | 1.42                 | T.                        | 11                           | 5     | 12                           | 13        | sw.        |                                                                                                                      |
| Means and extremes.....              |            |                 |                         | 49.9                         | +4.6                      | 73      | 12   | 27     | 20   | 28                       | 2.91  | -0.23                     | 1.42                 | T.                        | 10                           | 9     | 13                           | 8         | sw.        |                                                                                                                      |
| For the State.....                   |            |                 |                         | 47.9                         | +5.0                      | 78      | 1†   | 15     | 20   | 50                       | 4.02  | +0.94                     | 3.45                 | 0.1                       | 11                           | 10    | 8                            | 12        | sw.        |                                                                                                                      |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means. †† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.



Daily Precipitation for November, 1927

| Stations                                   | Drainage Basin  | Day of month |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      | Total |
|--------------------------------------------|-----------------|--------------|------|------|------|-----|----|---|-----|-----|-----|-----|----|----|----|----|-----|------|------|------|----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|-------|
|                                            |                 | 1            | 2    | 3    | 4    | 5   | 6  | 7 | 8   | 9   | 10  | 11  | 12 | 13 | 14 | 15 | 16  | 17   | 18   | 19   | 20 | 21  | 22  | 23  | 24   | 25  | 26  | 27  | 28  | 29  | 30   | 31   |       |
| <i>The Highlands and Kittatinny Valley</i> |                 |              |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      |       |
| Belvidere.....                             | Delaware.....   | T.           | 2.39 | .60  | .15  | T.  |    |   | T.  | .09 |     |     |    |    |    |    |     | .39  | 1.42 |      |    | .06 | T.  |     | .25  |     |     | .11 | .14 | .07 | .04  | 5.71 |       |
| Charlotteburg.....                         | Passaic.....    | T.           | 2.48 | .75  | .09  | T.  |    |   |     | .07 | .21 |     |    |    |    |    |     | 1.05 | 3.45 |      |    | T.  |     |     | .30  | .03 |     | .11 | .14 |     |      | 8.68 |       |
| Culvers Lake.....                          | Delaware.....   | T.           | 2.45 | .81  | .11  |     |    |   |     | .05 | .18 |     |    |    |    |    |     | .81  | 1.32 |      |    | T.  |     |     | .45  | .08 |     | .25 | .20 | .05 |      | 6.76 |       |
| Dover.....                                 | Passaic.....    | *            | 2.80 | .08  | .04  |     |    |   | .03 | .07 | .03 |     |    |    |    |    |     | *    | 3.25 |      |    | .07 |     |     | 1.31 |     |     | .16 | .25 | .05 | .05  | 8.19 |       |
| Layton.....                                | Delaware.....   | T.           | 2.52 | .38  | .07  |     |    |   |     | .03 |     | .14 |    |    |    |    |     | .77  | 1.03 |      |    | T.  |     |     | .56  |     |     | .28 | .16 | .05 |      | 5.99 |       |
| Newton.....                                | Delaware.....   |              | 2.67 | .43  | .10  |     |    |   | .04 | .04 |     |     |    |    |    |    | .04 | .46  | 1.45 |      |    | .02 |     |     | .38  | .02 |     | .20 | .15 | .03 |      | 6.03 |       |
| Phillipsburg.....                          | do.....         | T.           | 1.96 | .35  | .13  |     |    |   | T.  | .04 |     |     |    |    |    |    |     | 1.43 | .05  |      |    | .04 |     |     | .04  |     | .03 | .02 | .18 | .03 | T.   |      | 4.30  |
| Sussex.....                                | Hudson.....     |              | 2.90 | .56  | .06  |     |    |   |     | .06 | .16 |     |    |    |    |    |     | .47  | 2.23 |      |    | .03 |     |     | .68  | .02 |     | .48 | .14 | .10 | .01  | 7.90 |       |
| <i>The Red Sandstone Plain.</i>            |                 |              |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      |       |
| Bergen Point**.....                        | Coast.....      | T.           | 1.47 | .39  | .10  |     |    |   | T.  |     |     | .09 |    |    |    |    |     | .01  | 1.05 | T.   |    | T.  |     |     | .16  |     |     | .03 | .38 | .03 | T.   | 3.62 |       |
| Boonton   .....                            | Passaic.....    |              | .66  | 1.52 | .03  | .05 |    |   |     | .04 |     | .09 |    |    |    |    |     | .31  | .77  |      |    |     | T.  |     | .01  | .19 |     | .17 | .13 | .06 | T.   | 4.03 |       |
| Chatham  .....                             | do.....         |              | .47  | 1.28 | .09  | .03 |    |   |     | .05 | .04 | .03 |    |    |    |    |     | .04  | .19  | .77  |    |     | .07 |     |      |     |     | .18 | .30 | .13 |      | 3.67 |       |
| Elizabeth.....                             | Coast.....      |              | 1.02 | .25  | .11  | T.  |    |   | T.  | .05 |     | .03 |    |    |    |    |     | .12  | .85  |      |    |     | .01 |     | .15  |     |     | .06 | .31 | .06 |      | 2.99 |       |
| Flemington.....                            | Raritan.....    | T.           | 2.08 | .49  | .05  |     |    |   | T.  | .10 |     |     |    |    |    |    |     | .47  | 1.51 |      |    |     | .04 |     | .11  | T.  |     | .08 | .44 | .04 | .02  | 5.43 |       |
| Highwood.....                              | Hackensack..... | T.           | 1.89 | .42  | .62  |     |    |   | T.  | .05 | .16 |     |    |    |    |    |     | .33  | .76  |      |    | T.  |     |     | .18  |     |     | .17 | .23 | .18 |      | 4.99 |       |
| Jersey City.....                           | Coast.....      |              | .02  | 1.60 | .25  | .06 |    |   | T.  | .02 | .08 |     |    |    |    |    |     | .04  | .18  | 1.10 |    |     | T.  |     | .12  |     |     | .11 | .34 | .05 |      | 3.97 |       |
| Lambertville.....                          | Delaware.....   |              | .03  | 1.78 | .47  | .09 | T. |   | .14 | .04 |     |     |    |    |    |    |     | .57  | .93  |      |    | .06 |     | .19 |      | .19 |     | .12 | .52 |     |      | 4.94 |       |
| Little Falls   .....                       | Passaic.....    |              | .22  | 1.79 |      | .05 |    |   |     | .06 | .01 | .15 |    |    |    |    |     | .16  | .75  |      |    |     |     |     | .12  | .10 |     | .20 | .20 | .11 |      | 3.92 |       |
| New Brunswick.....                         | Raritan.....    | T.           | .87  | .28  | .08  |     |    |   | T.  | .06 |     |     |    |    |    |    |     | T.   | .86  |      |    |     | .02 |     | .16  |     | .07 | .45 | .03 |     |      | 2.88 |       |
| New Milford**.....                         | Hackensack..... |              | 1.85 | .24  | .08  |     |    |   | .01 | .17 | .20 |     |    |    |    |    |     | .78  | .10  |      |    |     |     | .15 |      | .15 | .22 | .02 |     |     |      | 3.77 |       |
| Paterson.....                              | Passaic.....    | T.           | 1.79 | .42  | .09  |     |    |   | T.  | .05 | .26 | .05 |    |    |    |    |     | .02  | .19  | .01  |    |     | .02 |     | .22  |     | .30 | .14 |     | .08 |      | 3.64 |       |
| Plainfield.....                            | Raritan.....    |              | .01  | *    | 1.37 | .08 | T. |   | .01 | .02 |     |     |    |    |    |    |     | .02  | .03  | 1.00 | T. | T.  |     |     | .17  |     | T.  | .02 | .35 | T.  |      | 3.08 |       |
| Ridgefield.....                            | Hackensack..... | T.           | 1.78 | .71  | .17  |     |    |   | T.  | .01 | .28 |     |    |    |    |    |     | T.   | *    | 1.12 |    |     |     | .01 |      | .16 |     | .39 | .02 | .09 |      | 4.73 |       |
| Somerville.....                            | Raritan.....    |              | 1.43 | .47  | .08  | T.  |    |   |     | .09 |     |     |    |    |    |    |     | .09  | .48  |      |    | T.  |     | .02 |      | .12 |     | .35 | .03 |     |      | 3.16 |       |
| South Orange.....                          | Rahway.....     |              |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      |       |
| Verona**.....                              | Passaic.....    | T.           | .08  | 1.69 | .18  | .07 | T. |   | .01 | .06 | .07 |     |    |    |    |    |     | T.   | .73  | .05  |    |     |     |     | .22  |     | .01 | .10 | .30 | .02 | T.   | 3.59 |       |
| Woodcliff Lake**.....                      | Hackensack..... |              | .05  | 1.75 | .22  | .09 |    |   |     | .07 | .19 |     |    |    |    |    |     | .07  | 1.00 | .05  |    |     |     |     | .20  |     | .20 | .15 |     |     |      | 4.04 |       |
| New York, N. Y***.....                     | Coast.....      |              | .02  | 1.68 | .15  | .07 |    |   | T.  | .02 | .07 |     |    |    |    |    |     | .05  | 1.26 | .01  |    |     | T.  |     | .12  |     | .01 | .11 | .37 | .01 | T.   | 3.95 |       |
| <i>The Southern Interior.</i>              |                 |              |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      |       |
| Belleplain.....                            | Tuckahoe.....   | *            | .76  | .22  | .02  |     |    |   | *   | .18 |     |     |    |    |    |    |     | *    | .87  |      |    |     |     |     |      |     |     |     |     | .03 |      | 2.08 |       |
| Bridgeton.....                             | Coast.....      |              | .02  | .68  | .20  | .08 |    |   | .07 | *   |     |     |    |    |    |    |     | .11  | *    | .58  |    |     | T.  |     |      |     |     | T.  |     |     |      | 1.74 |       |
| Burlington.....                            | Delaware.....   | T.           | .90  | .27  | .02  |     |    |   | T.  | .24 |     |     |    |    |    |    |     | T.   | .13  | .90  |    |     | .02 |     | .05  | T.  |     | .05 | .53 | .04 | T.   | 3.15 |       |
| Clayton.....                               | Delaware.....   |              |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      |       |
| Hammonton.....                             | Mullica.....    |              |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      |       |
| Hightstown.....                            | Raritan.....    |              | .65  | .32  | .07  |     |    |   | T.  | .16 |     |     |    |    |    |    |     | .04  | *    | 1.29 |    |     | T.  |     | .05  | .04 |     | .08 | .49 |     |      | 3.19 |       |
| Imlaytown.....                             | Delaware.....   |              | \$   | \$   | \$   |     |    |   | \$  | .22 |     |     |    |    |    |    |     | .07  | 1.19 |      |    | .03 |     |     | .04  | .11 |     | .10 | .46 | .03 |      | \$   |       |
| Indian Mills.....                          | Mullica.....    |              | .67  | .30  | .05  |     |    |   | T.  | .22 |     |     |    |    |    |    |     | T.   | .07  | 1.20 |    |     | T.  |     | .04  |     |     | T.  | .34 | .04 |      | 2.93 |       |
| Lakewood.....                              | Metedeconk..... |              | 1.50 | .30  | .06  |     |    |   | T.  | .23 |     |     |    |    |    |    |     | T.   | 1.16 |      |    | T.  |     |     | .06  | T.  |     | .08 | .63 | .04 |      | 4.06 |       |
| Moorestown.....                            | Delaware.....   | T.           | .95  | .23  | .03  |     |    |   | .05 | .18 |     |     |    |    |    |    |     | *    | .10  | .90  |    |     | T.  |     |      |     | .07 | .53 |     |     | 3.04 |      |       |
| Northfield.....                            | Coast.....      | T.           | 1.05 | .15  |      |     |    |   | .03 | .13 |     |     |    |    |    |    |     | *    | .72  |      |    | T.  |     |     |      |     |     | .01 |     |     |      | 2.09 |       |
| Pleasantville   .....                      | Coast.....      |              | .21  | .93  | .01  | .02 |    |   |     | .20 | T.  |     |    |    |    |    |     | .10  | .78  |      |    |     |     |     |      |     |     | .03 | .04 |     |      | 2.32 |       |
| Riverton   .....                           | Delaware.....   |              | .28  | 1.21 | T    | T.  |    |   |     | .26 | .03 |     |    |    |    |    |     | T.   | .09  | 1.00 | T. |     |     | T.  |      | T.  | .03 | T.  | T.  | .35 | .18  | T.   | 3.43  |
| Runyon.....                                | Coast.....      |              | .82  | .37  |      |     |    |   |     | .10 |     |     |    |    |    |    |     | .28  | 1.18 |      |    |     |     |     | .04  |     | .22 | .36 |     |     |      | 3.37 |       |
| Trenton***.....                            | Delaware.....   | T.           | 1.27 | .29  | .02  | T.  |    |   | .08 | .09 |     |     |    |    |    |    |     | .05  | .88  | .13  |    | .01 |     |     | .18  |     | T.  | .08 | .49 | T.  |      | 3.57 |       |
| Tuckerton.....                             | Coast.....      |              | 1.40 | .30  | .10  |     |    |   |     | .20 |     |     |    |    |    |    |     | *    | .80  |      |    |     |     |     |      |     |     | .20 |     |     |      | 3.00 |       |
| Vineland.....                              | Maurice.....    |              | 1.05 | .28  | .30  |     |    |   | .22 | .23 |     |     |    |    |    |    |     | .21  | *    | .82  |    | T.  |     |     |      |     |     | .01 | .26 |     |      | 3.38 |       |
| Phila., Pa***.....                         | Delaware.....   |              | .02  | 1.41 | .21  | .03 | T. |   | .05 | .10 |     |     |    |    |    |    |     | T.   | 1.24 | .02  |    |     | T.  |     | .01  |     | .05 | .45 | T.  |     |      | 3.59 |       |
| <i>The Sea Coast.</i>                      |                 |              |      |      |      |     |    |   |     |     |     |     |    |    |    |    |     |      |      |      |    |     |     |     |      |     |     |     |     |     |      |      |       |
| Asbury Park.....                           | Coast.....      |              | 1.10 | .30  | .20  |     |    |   | T.  | .15 |     |     |    |    |    |    |     | T.   | .40  | .50  |    |     | T.  |     |      | .45 | .05 |     | .05 | .65 |      | T.   | 3.85  |
| Atlantic City***.....                      | do.....         |              | .02  | 1.04 | .16  | .08 | T. |   | .16 | .01 |     |     |    |    |    |    |     | T.   | .55  | .17  |    |     | T.  |     |      |     |     | T.  | .01 |     |      | 2.20 |       |
| Cape May City.....                         | do.....         |              | .01  | .75  | .21  | T.  |    |   | .14 | .09 |     |     |    |    |    |    |     | .09  | .69  |      |    |     | .01 | .01 |      |     |     |     | T.  |     |      | 2.00 |       |
| Sandy Hook***.....                         | do.....         |              | 1.32 | .19  | .10  | T.  |    |   | .01 | .01 |     |     |    |    |    |    |     | 1.23 | .01  |      |    | T.  |     |     | .10  |     | T.  | .14 | .48 | .01 |      | 3.60 |       |

Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. || Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\*Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

MISCELLANEOUS DATA

| Stations.                 | Pressure     |         |      |        |      | Wind            |                |           |      | Moisture                            |                                        |                                      | Sun shine                       |
|---------------------------|--------------|---------|------|--------|------|-----------------|----------------|-----------|------|-------------------------------------|----------------------------------------|--------------------------------------|---------------------------------|
|                           | Monthly mean | Highest | Date | Lowest | Date | Hourly velocity | Highest        |           |      | Relative humidity per cent at 8 a m | Relative humidity, per cent at 12 noon | Relative humidity, per cent at 8 p m | Percentage of possible sunshine |
|                           |              |         |      |        |      |                 | Miles per hour | Direction | Date |                                     |                                        |                                      |                                 |
| Atlantic City . . . . .   | 30.13        | 30.73   | 13   | 29.24  | 4    | 18.0            | 59             | s.        | 17   | 81                                  | 69                                     | 79                                   | 54                              |
| New York, N. Y. . . . .   | 30.11        | 30.74   | 13   | 29.09  | 4    | 18.8            | 62             | s.        | 17   | 78                                  | 69                                     | 76                                   | 42                              |
| Philadelphia, Pa. . . . . | 30.12        | 30.74   | 13   | 29.27  | 4    | 9.5             | 35             | sw.       | 30   | 79                                  | 70                                     | 74                                   | 44                              |
| Ridgefield . . . . .      |              |         |      |        |      |                 |                |           |      |                                     |                                        |                                      |                                 |
| Riverton . . . . .        |              | 30.68   | 13   | 29.46  | 4    |                 |                |           |      | 87                                  | 68                                     | 79                                   |                                 |
| Sandy Hook . . . . .      | 30.10        | 30.72   | 13   | 29.10  | 4    | 16.3            | 60             | s.        | 17   | 81                                  | 68                                     | 75                                   | 45                              |
| Trenton . . . . .         | 30.12        | 30.73   | 13   | 29.18  | 4    | 10.7            | 39             | s.        | 17   | 80                                  | 65                                     | 74                                   | 44                              |
| Verona . . . . .          | 30.07        | 30.72   | 13   | 29.11  | 4    | 7.5             | 38             | sw.       | 30   | 81                                  | 67                                     | 77                                   | ....                            |



## Daily Temperatures for November, 1927

| Stations                             | 1       | 2    | 3  | 4    | 5  | 6    | 7  | 8    | 9    | 10 | 11   | 12   | 13   | 14   | 15   | 16 | 17 | 18   | 19   | 20 | 21   | 22 | 23   | 24   | 25 | 26 | 27 | 28 | 29 | 30 | 31   | Mean |                   |
|--------------------------------------|---------|------|----|------|----|------|----|------|------|----|------|------|------|------|------|----|----|------|------|----|------|----|------|------|----|----|----|----|----|----|------|------|-------------------|
| The Highlands and Kittatinny Valley. |         |      |    |      |    |      |    |      |      |    |      |      |      |      |      |    |    |      |      |    |      |    |      |      |    |    |    |    |    |    |      |      |                   |
| Belvidere.....                       | Maximum | 72   | 70 | 67   | 53 | 47   | 44 | 42   | 39   | 41 | .... | 60   | 62   | 53   | 57   | 63 | 64 | 69   | 67   | 42 | 42   | 41 | 56   | 64   | 60 | 45 | 53 | 55 | 55 | 61 | 58   | .... | 55.2 <sup>a</sup> |
| Belvidere.....                       | Minimum | 40   | 41 | 48   | 36 | 30   | 31 | 28   | 24   | 30 | 24   | 38   | 40   | 30   | 23   | 39 | 54 | 55   | 37   | 28 | 27   | 24 | 36   | 43   | 40 | 38 | 29 | 42 | 36 | 36 | 37   | .... | 35.5              |
| Charlotteburg.....                   | Maximum | 78   | 70 | 68   | 60 | 54   | 50 | .... | 38   | 40 | .... | 60   | 68   | .... | 56   | 68 | 67 | 74   | 60   | 37 | 45   | 42 | 58   | 67   | 63 | 50 | 55 | 63 | 45 | 64 | 62   | .... | 57.9 <sup>a</sup> |
| Charlotteburg.....                   | Minimum | 36   | 39 | 50   | 40 | 38   | 29 | 22   | 25   | 27 | 22   | 38   | 42   | 30   | 20   | 35 | 38 | .... | 33   | 28 | .... | 20 | 35   | 39   | 37 | 34 | 25 | 38 | 35 | 35 | 36   | .... | 33.3 <sup>b</sup> |
| Dover.....                           | Maximum | 73   | 70 | 63   | 54 | 45   | 45 | 40   | 36   | 42 | 48   | 60   | 69   | 59   | 57   | 66 | 65 | .... | 33   | 28 | .... | 20 | 35   | 39   | 37 | 34 | 25 | 38 | 35 | 35 | 36   | .... | 33.3 <sup>b</sup> |
| Dover.....                           | Minimum | 42   | 41 | 43   | 37 | 30   | 31 | 27   | 24   | 36 | 42   | 48   | 60   | 69   | 59   | 57 | 66 | 65   | .... | 50 | 43   | 41 | 57   | 67   | 58 | 48 | 50 | 56 | 55 | 63 | 62   | .... | 55.1 <sup>b</sup> |
| Layton.....                          | Maximum | 73   | 68 | 60   | 48 | 41   | 44 | 36   | 35   | 39 | 47   | 62   | 70   | 51   | 54   | 63 | 67 | 69   | 73   | 38 | 38   | 40 | 54   | 65   | 61 | 44 | 58 | 57 | 58 | 63 | 61   | .... | 54.6              |
| Layton.....                          | Minimum | 37   | 38 | 47   | 36 | 28   | 27 | 30   | 19   | 27 | 22   | 43   | 41   | 25   | 19   | 40 | 40 | 60   | 35   | 27 | 17   | 21 | 34   | 51   | 35 | 35 | 25 | 42 | 34 | 34 | 37   | .... | 38.5              |
| Newton.....                          | Maximum | 72   | 70 | 64   | 48 | 44   | 43 | 39   | 35   | 39 | 27   | 22   | 43   | 41   | 25   | 19 | 40 | 40   | 60   | 35 | 27   | 17 | 21   | 34   | 51 | 35 | 35 | 25 | 42 | 34 | 34   | .... | 38.5              |
| Newton.....                          | Minimum | 48   | 47 | 45   | 36 | 30   | 32 | 29   | 23   | 27 | 25   | 42   | 41   | 25   | 19   | 40 | 40 | 60   | 35   | 27 | 17   | 21 | 34   | 51   | 35 | 35 | 25 | 42 | 34 | 34 | .... | 38.5 |                   |
| Phillipsburg.....                    | Maximum | .... | 61 | 46   | 39 | 40   | 34 | 33   | .... | 47 | .... | 45   | .... | 45   | .... | 60 | 70 | 64   | 64   | 52 | 36   | 39 | .... | 58   | 57 | 47 | 51 | 55 | 56 | 66 | 64   | .... | 51.5 <sup>c</sup> |
| Phillipsburg.....                    | Minimum | 42   | 44 | 46   | 39 | 34   | 32 | 31   | 27   | 31 | 27   | 45   | 44   | 30   | 25   | 46 | 53 | 60   | 35   | 29 | 28   | 27 | 39   | 42   | 42 | 38 | 31 | 45 | 40 | 41 | .... | 37.8 |                   |
| Sussex.....                          | Maximum | 72   | 70 | 63   | 50 | 44   | 45 | 38   | 36   | 39 | 48   | 60   | 69   | 53   | 59   | 66 | 65 | 68   | 68   | 52 | 39   | 39 | 52   | 65   | 63 | 59 | 52 | 65 | 54 | 61 | 58   | .... | 55.7              |
| Sussex.....                          | Minimum | 45   | 38 | 47   | 38 | 31   | 31 | 30   | 22   | 28 | 22   | 42   | 41   | 26   | 20   | 39 | 49 | 56   | 34   | 26 | 19   | 22 | 35   | 43   | 38 | 32 | 26 | 43 | 32 | 33 | 37   | .... | 34.2              |
| The Red Sandstone Plain.             |         |      |    |      |    |      |    |      |      |    |      |      |      |      |      |    |    |      |      |    |      |    |      |      |    |    |    |    |    |    |      |      |                   |
| Bergen Point.....                    | Maximum | 74   | 72 | 65   | 62 | 45   | 45 | 41   | 40   | 41 | 52   | 61   | 70   | 50   | 60   | 70 | 72 | 70   | 66   | 42 | 42   | 44 | 60   | .... | 62 | 48 | 56 | 56 | 56 | 65 | 67   | .... | 57.0 <sup>a</sup> |
| Bergen Point.....                    | Minimum | 48   | 50 | .... | 40 | 40   | 35 | 32   | 30   | 32 | 30   | 44   | 48   | 35   | 33   | 47 | 52 | 60   | 38   | 32 | 28   | 30 | 41   | 50   | 45 | 38 | 35 | 45 | 42 | 43 | 53   | .... | 40.6 <sup>a</sup> |
| Boonton§§.....                       | Maximum | 70   | 70 | 64   | 46 | 45   | 44 | 40   | 38   | 44 | 49   | .... | 69   | 51   | 55   | 67 | 66 | 70   | 53   | 41 | 40   | 42 | 56   | 67   | 48 | 44 | 51 | 56 | 45 | 63 | 65   | .... | 53.8 <sup>a</sup> |
| Boonton§§.....                       | Minimum | 31   | 41 | 46   | 39 | 30   | 30 | 31   | 30   | 28 | 23   | 30   | 40   | 32   | 22   | 26 | 47 | 53   | 41   | 27 | 23   | 21 | 30   | 41   | 39 | 37 | 26 | 27 | 40 | 36 | 38   | .... | 33.5              |
| Elizabeth.....                       | Maximum | 78   | 74 | .... | 58 | 49   | 48 | 41   | 39   | 41 | 52   | 66   | .... | 62   | 68   | 75 | 73 | .... | 41   | 27 | 23   | 21 | 30   | 41   | 39 | 37 | 26 | 27 | 40 | 36 | 38   | .... | 58.7 <sup>i</sup> |
| Elizabeth.....                       | Minimum | 43   | 43 | 51   | 40 | 39   | 31 | 29   | 23   | 31 | 25   | 40   | 40   | 33   | 26   | 38 | 49 | 58   | 38   | 26 | 21   | 23 | 37   | 44   | 43 | 37 | 24 | 41 | 41 | 42 | 40   | .... | 36.7              |
| Flemington.....                      | Maximum | 75   | 78 | 66   | 55 | 47   | 48 | 46   | 39   | 43 | 51   | 59   | 70   | 55   | 59   | 69 | 69 | 70   | 69   | 43 | 43   | 42 | 60   | 70   | 65 | 48 | 54 | 57 | 58 | 65 | 66   | .... | 57.8              |
| Flemington.....                      | Minimum | 40   | 40 | 53   | 38 | 33   | 33 | 30   | 26   | 31 | 25   | 44   | 41   | 31   | 25   | 40 | 52 | 55   | 40   | 29 | 28   | 26 | 38   | 44   | 44 | 39 | 30 | 41 | 40 | 40 | 39   | .... | 37.2              |
| Highwood.....                        | Maximum | 71   | 71 | 65   | 63 | 44   | 45 | 40   | 39   | 40 | 49   | 57   | 70   | 51   | 56   | 66 | 70 | 67   | 65   | 42 | 40   | 42 | 56   | 71   | 64 | 47 | 50 | 53 | 58 | 62 | 62   | .... | 55.7              |
| Highwood.....                        | Minimum | 45   | 44 | 61   | 39 | 40   | 29 | 31   | 22   | 30 | 25   | 44   | 47   | 31   | 25   | 42 | 51 | 60   | 33   | 25 | 21   | 24 | 40   | 46   | 41 | 33 | 27 | 43 | 38 | 42 | 40   | .... | 37.0              |
| Jersey City.....                     | Maximum | 70   | 69 | 64   | 47 | 47   | 44 | 40   | 39   | 41 | 51   | 62   | 70   | 49   | 57   | 66 | 71 | 68   | 62   | 41 | 40   | 44 | 58   | 71   | 60 | 48 | 53 | 57 | 58 | 63 | 66   | .... | 55.9              |
| Jersey City.....                     | Minimum | 50   | 56 | 45   | 40 | 38   | 33 | 31   | 30   | 35 | 36   | 46   | 46   | 34   | 37   | 51 | 55 | 58   | 36   | 30 | 28   | 31 | 43   | 49   | 44 | 38 | 38 | 47 | 42 | 46 | 49   | .... | 41.4              |
| Lambertville.....                    | Maximum | 69   | 71 | 64   | 55 | 45   | 43 | 41   | 39   | 39 | 47   | 60   | 67   | 51   | 54   | 67 | 66 | 69   | 67   | 38 | 39   | 42 | 58   | 64   | 69 | 54 | 50 | 56 | 58 | 62 | 66   | .... | 55.7              |
| Lambertville.....                    | Minimum | 47   | 48 | 55   | 37 | 32   | 34 | 30   | 26   | 31 | 26   | 42   | 50   | 31   | 28   | 46 | 53 | 59   | 38   | 28 | 27   | 28 | 37   | 40   | 44 | 32 | 31 | 43 | 38 | 47 | 42   | .... | 36.5              |
| Little Falls§§.....                  | Maximum | 74   | 73 | 64   | 57 | .... | 47 | 47   | 35   | 42 | 50   | 62   | 72   | 53   | 58   | 68 | 70 | 71   | 57   | 43 | 40   | 47 | 60   | 67   | 49 | 47 | 54 | 57 | 51 | 65 | 64   | .... | 56.7 <sup>a</sup> |
| Little Falls§§.....                  | Minimum | 41   | 43 | 57   | 40 | 32   | 31 | 31   | 27   | 30 | 25   | 34   | 41   | 31   | 25   | 40 | 50 | 57   | 43   | 29 | 26   | 24 | 34   | 46   | 41 | 37 | 28 | 37 | 40 | 37 | 37   | .... | 36.5              |
| New Brunswick.....                   | Maximum | 72   | 74 | 68   | 65 | 47   | 47 | 42   | 39   | 40 | 54   | 65   | 71   | 52   | 60   | 69 | 72 | 71   | 68   | 40 | 41   | 44 | 59   | 71   | 66 | 49 | 53 | 57 | 58 | 64 | 70   | .... | 58.3              |
| New Brunswick.....                   | Minimum | 47   | 45 | 61   | 39 | 32   | 34 | 30   | 27   | 31 | 27   | 42   | 50   | 33   | 26   | 46 | 51 | 57   | 38   | 29 | 24   | 25 | 39   | 46   | 44 | 39 | 31 | 43 | 40 | 41 | 41   | .... | 38.6              |
| Paterson.....                        | Maximum | 72   | 70 | 63   | 61 | 43   | 45 | 45   | 37   | 41 | 49   | 57   | 70   | 55   | 56   | 65 | 69 | 67   | 65   | 40 | 40   | 41 | 56   | 70   | 61 | 48 | 51 | 55 | 42 | 63 | 61   | .... | 55.3              |
| Paterson.....                        | Minimum | 44   | 47 | 60   | 41 | 34   | 34 | 32   | 29   | 31 | 29   | 44   | 46   | 34   | 30   | 46 | 51 | 58   | 37   | 31 | 26   | 27 | 39   | 50   | 45 | 39 | 32 | 40 | 38 | 38 | 41   | .... | 39.1              |
| Plainfield.....                      | Maximum | 73   | 73 | 65   | 60 | 47   | 45 | 42   | 40   | 41 | 51   | 62   | 70   | 50   | 58   | 69 | 71 | 71   | 63   | 41 | 41   | 44 | 59   | 72   | 62 | 49 | 53 | 58 | 59 | 63 | 61   | .... | 57.3              |
| Plainfield.....                      | Minimum | 44   | 41 | 49   | 39 | 37   | 31 | 30   | 24   | 32 | 24   | 43   | 44   | 31   | 24   | 40 | 49 | 58   | 39   | 27 | 21   | 22 | 35   | 37   | 40 | 38 | 27 | 47 | 42 | 45 | 48   | .... | 36.9              |
| Ridgefield.....                      | Maximum | 74   | 71 | 64   | 47 | 45   | 46 | 43   | 39   | 40 | 50   | 59   | 70   | 49   | 56   | 67 | 71 | 67   | 61   | 40 | 41   | 41 | 57   | 70   | 51 | 46 | 50 | 55 | 53 | 63 | 64   | .... | 55.0              |
| Ridgefield.....                      | Minimum | 49   | 47 | 47   | 38 | 34   | 32 | 31   | 25   | 30 | 27   | 47   | 41   | 30   | 27   | 49 | 53 | 60   | 31   | 29 | 24   | 28 | 44   | 46   | 42 | 32 | 30 | 45 | 40 | 41 | 40   | .... | 37.8              |
| Somerville.....                      | Maximum | 74   | 75 | 67   | 60 | 51   | 46 | 42   | 40   | 42 | 52   | 62   | 70   | 55   | 58   | 70 | 71 | 73   | 68   | 43 | 42   | 44 | 60   | 72   | 66 | 49 | 55 | 56 | 56 | 65 | 64   | .... | 58.3              |
| Somerville.....                      | Minimum | 40   | 40 | 58   | 39 | 29   | 30 | 31   | 28   | 32 | 23   | 43   | 46   | 31   | 22   | 39 | 50 | 56   | 40   | 26 | 20   | 21 | 37   | 41   | 44 | 39 | 28 | 42 | 41 | 41 | 38   | .... | 36.5              |
| South Orange.....                    | Maximum | .... | 61 | 46   | 39 | 40   | 34 | 33   | .... | 47 | .... | 45   | .... | 45   | .... | 60 | 70 | 64   | 64   | 52 | 36   | 39 | .... | 58   | 57 | 47 | 51 | 55 | 56 | 66 | 64   | .... | 51.5 <sup>c</sup> |
| Verona.....                          | Maximum | 70   | 68 | 64   | 55 | 43   | 44 | 40   | 37   | 39 | 49   | 60   | 68   | 48   | 55   | 66 | 67 | 69   | 65   | 38 | 38   | 40 | 56   | 68   | 51 | 46 | 50 | 56 | 56 | 62 | 64   | .... | 54.4              |
| Verona.....                          | Minimum | 50   | 52 | 55   | 39 | 33   | 33 | 30   | 26   | 30 | 27   | 45   | 48   | 32   | 29   | 48 | 54 | 59   | 33   | 29 | 24   | 28 | 39   | 51   | 40 | 35 | 32 | 43 | 41 | 39 | 49   | .... | 39.1              |
| New York, N. Y.....                  | Maximum | 69   | 68 | 64   | 47 | 47   | 44 | 39   | 39   | 41 | 51   | 61   | 70   | 48   | 56   | 65 | 70 | 66   | 61   | 41 | 40   | 44 | 58   | 70   | 59 | 48 | 53 | 57 | 58 | 62 | 66   |      |                   |



FEB 2 1929

UNIVERSITY OF ILLINOIS

U. S. DEPARTMENT OF AGRICULTURE, WEATHER BUREAU.

CHARLES F. MARVIN, Chief.

## CLIMATOLOGICAL DATA.

## NEW JERSEY SECTION.

G. HAROLD NOYES, Meteorologist.

TRENTON, N. J.

VOL. XXXII.

DECEMBER, 1927.

No. 12

## GENERAL SUMMARY.

The outstanding features of weather conditions during December were three warm periods, one cold wave, one sleet storm, and the absence of snow. The warm periods were the 1st-2d, 6-8th, 11-16th, and 28th through the close of the month. Thermometer readings well up in the 60's on the 8th, were followed by a drop of some 45 to 50 degrees in the following 22 hours. The cold wave resulted in no appreciable damage. A sleet storm on the 4th was widespread and heavy, amounting to 1 to 4 inches or more, and transportation and drainage difficulties were considerably worse than would have been the case with a like amount of snow. During the warm wave of the 7-8th, the sleet disappeared. Very little sleet fell near the shore or in the extreme south. A few negligible flurries of snow occurred, amounting to but a fraction of an inch. The warm weather compared favorably with other warm Decembers in 1923, 1920, 1918, 1913, 1912 and 1911, all of which were slightly warmer than December of this year, so that the record is not greatly remarkable. Wind movement was persistently greater than normal, and gales of moderately damaging force were more than ordinarily frequent. Cold nights commencing during the third week caused small ponds to close with ice, but streams remained mostly open. There was a slight excess of cloudiness and frequency of precipitation, but considering all conditions, it was an exceptionally pleasant month for December.

Storm warnings were displayed along the coast on the 2d, 4th, 7th, 8th, 15th, 16th, 19th, 20th, 29th and 31st.

## TEMPERATURE.

The monthly mean temperature of the State, as deduced from observations of 37 stations, was 35.3°, which was 2.6° above normal. The highest temperature was 70° at Asbury Park on the 1st and the lowest, 2°, at Runyon on the 27th. The greatest daily range of temperature was 42° at Riverton on the 8th. The highest monthly mean temperature was 39.1° at Atlantic City, and the lowest, 30.7° at Layton.

The temperature departure from the normal for the year, 1927, to date, by sections, is: The Highlands, +0.5°; Red Sandstone Plain, +0.2°; Southern Interior, +0.6°; Sea Coast, +0.6°.

## PRECIPITATION.

The mean total precipitation of the State, as deduced from observations of 41 stations, was 4.54 inches, which was 0.63 inch above normal. The average total snowfall at twenty-two selected stations was a Trace, which was 6.4 inches below normal.

The greatest monthly precipitation was 5.76 inches, at Lambertville, and the least, 2.80 inches at Phillipsburg. The greatest amount of precipitation in any 24 consecutive hours was 2.77 inches at Trenton on the 4-5th. The mean of the number of days on which 0.01 inch or more of precipitation fell was 12, or 3 more than normal.

The precipitation accumulated departure from the normal for the year 1927, to date, by sections, is: The Highlands, +4.83 inches; Red Sandstone Plain, +5.99 inches; Southern Interior, -0.58 inch; Sea Coast, +0.21 inch.

## WIND.

The prevailing wind direction was from the northwest. The wind movement averaged 19 miles per hour, which was 5 miles above normal. The highest velocity, sustained for 5 consecutive minutes, was 68 miles per hour from the northeast at Atlantic City on the 4th. High winds also occurred on the 1st, 2d, 4th, 5th, 7th, 8th, 10th, 14th, 16th, 20th and 31st.

## SUNSHINE AND CLOUDINESS.

The average number of clear days throughout the State was 13, which was 1 more than normal; partly cloudy, 6, or 3 less than normal; cloudy, 12, or 2 more than normal. The per cent of possible sunshine was 46, which was 6 per cent below normal.

## MISCELLANEOUS.

The mean atmospheric pressure, reduced to sea level, was 30.07 inches, which was 0.03 inch below normal. The highest reading was 30.67 inches at Ridgefield on the 10th and the lowest, 29.10 inches at Sandy Hook on the 16th.

The mean stage of the Delaware River at Phillipsburg was 7.1 feet, and the highest stage, 15.0 feet on the 9th. At Trenton the mean daily stage was 4.5 feet, which was 1.9 feet above normal. The highest stage was 7.9 feet on the 9th and 10th.

Dense fog was observed on the 12th, 13th, 14th, 16th, 29th, 30th and 31st. Sleet fell on the 2d, 4th, 5th, 11th, 15th and 16th. Solar and lunar halos were observed on the 1st.

## COMPARATIVE DATA FOR DECEMBER

| Year      | Temperature |         |        | Precipitation |           |       |          | No. of days |               |        |                        |
|-----------|-------------|---------|--------|---------------|-----------|-------|----------|-------------|---------------|--------|------------------------|
|           | Mean        | Highest | Lowest | Mean          | Greatest. | Least | Snowfall | Clear       | Partly cloudy | Cloudy | .01 inch or more prec. |
| 1885..... | 35.3        | 60      | 6      | 3.15          | 4.33      | 2.47  | .....    | .....       | .....         | .....  | .....                  |
| 1886..... | 29.1        | 60      | -2     | 3.51          | 4.65      | 1.62  | .....    | .....       | .....         | .....  | .....                  |
| 1887..... | 33.7        | 62      | 6      | 5.29          | 7.32      | 3.64  | .....    | .....       | .....         | 12     | 10                     |
| 1888..... | 34.9        | 65      | 5      | 3.69          | 4.95      | 2.05  | .....    | .....       | .....         | 8      | 8                      |
| 1889..... | 41.5        | 71      | 8      | 1.62          | 3.69      | 0.25  | .....    | .....       | .....         | 9      | 9                      |
| 1890..... | 30.9        | 56      | 3      | 3.89          | 5.74      | 2.34  | .....    | 11          | 10            | 10     | 8                      |
| 1891..... | 40.9        | 71      | 9      | 4.25          | 5.32      | 2.25  | .....    | 13          | 9             | 9      | 8                      |
| 1892..... | 30.4        | 68      | 1      | 1.87          | 3.09      | 1.30  | .....    | 9           | 11            | 11     | 6                      |
| 1893..... | 34.9        | 70      | 5      | 3.39          | 4.66      | 1.67  | .....    | 11          | 10            | 10     | 11                     |
| 1894..... | 34.8        | 66      | -3     | 4.36          | 6.39      | 1.64  | .....    | 12          | 9             | 10     | 9                      |
| 1895..... | 37.2        | 70      | 3      | 2.61          | 5.42      | 1.71  | 0.4      | 11          | 9             | 11     | 6                      |
| 1896..... | 31.3        | 64      | -15    | 1.43          | 2.70      | 0.85  | 10.7     | 14          | 9             | 8      | 4                      |
| 1897..... | 35.1        | 69      | -3     | 4.90          | 6.44      | 3.07  | 3.4      | 8           | 11            | 12     | 11                     |
| 1898..... | 33.3        | 66      | -2     | 3.53          | 4.85      | 2.38  | 2.0      | 12          | 10            | 9      | 9                      |
| 1899..... | 35.5        | 69      | -1     | 2.11          | 4.30      | 1.29  | 0.5      | 14          | 10            | 7      | 7                      |
| 1900..... | 34.4        | 64      | -2     | 2.59          | 3.97      | 1.47  | 4.1      | 14          | 10            | 7      | 6                      |
| 1901..... | 32.6        | 68      | -8     | 7.30          | 9.45      | 4.87  | 2.1      | 12          | 9             | 10     | 11                     |
| 1902..... | 31.7        | 62      | -11    | 7.23          | 8.99      | 5.81  | 9.1      | 13          | 7             | 11     | 13                     |
| 1903..... | 28.6        | 56      | -13    | 4.08          | 5.49      | 3.20  | 9.2      | 14          | 9             | 8      | 9                      |
| 1904..... | 27.0        | 60      | -15    | 3.19          | 5.38      | 2.06  | 21.1     | 10          | 7             | 14     | 12                     |
| 1905..... | 36.3        | 61      | 5      | 3.65          | 5.60      | 2.58  | 1.5      | 14          | 8             | 9      | 7                      |
| 1906..... | 33.0        | 70      | -5     | 3.99          | 6.18      | 2.70  | 1.4      | 9           | 8             | 14     | 13                     |
| 1907..... | 36.6        | 70      | -3     | 4.91          | 7.13      | 3.55  | 5.9      | 12          | 8             | 11     | 9                      |
| 1908..... | 34.0        | 72      | 1      | 3.63          | 5.26      | 2.10  | 7.8      | 10          | 8             | 13     | 11                     |
| 1909..... | 29.8        | 60      | -15    | 4.45          | 5.51      | 3.55  | 12.6     | 14          | 8             | 9      | 5                      |
| 1910..... | 26.5        | 58      | -14    | 2.79          | 4.60      | 1.92  | 11.3     | 11          | 10            | 10     | 9                      |
| 1911..... | 38.4        | 70      | 2      | 3.77          | 5.09      | 2.94  | 5.6      | 10          | 7             | 14     | 11                     |
| 1912..... | 36.9        | 68      | -1     | 4.73          | 6.33      | 3.40  | 11.0     | 12          | 9             | 10     | 9                      |
| 1913..... | 37.7        | 63      | -11    | 3.03          | 4.59      | 1.47  | 0.8      | 13          | 9             | 9      | 7                      |
| 1914..... | 31.1        | 66      | -9     | 5.33          | 9.12      | 2.99  | 2.4      | 10          | 6             | 15     | 12                     |
| 1915..... | 31.9        | 64      | 3      | 4.82          | 7.83      | 2.19  | 13.6     | 12          | 9             | 10     | 8                      |
| 1916..... | 32.3        | 70      | -8     | 4.61          | 6.34      | 3.35  | 12.6     | 13          | 8             | 10     | 11                     |
| 1917..... | 24.8        | 54      | -21    | 3.18          | 5.46      | 1.55  | 11.5     | 13          | 7             | 11     | 8                      |
| 1918..... | 37.5        | 66      | 9      | 3.92          | 4.94      | 3.21  | 0.5      | 12          | 7             | 12     | 10                     |
| 1919..... | 28.8        | 67      | -18    | 2.98          | 5.14      | 1.84  | 6.8      | 10          | 8             | 13     | 12                     |
| 1920..... | 36.4        | 69      | 7      | 5.10          | 6.63      | 2.86  | 1.0      | 11          | 8             | 12     | 8                      |
| 1921..... | 32.3        | 64      | -4     | 2.37          | 3.23      | 1.62  | 6.2      | 13          | 8             | 10     | 9                      |
| 1922..... | 32.5        | 65      | -8     | 3.86          | 5.26      | 3.09  | 7.3      | 9           | 9             | 13     | 12                     |
| 1923..... | 40.8        | 69      | 9      | 4.14          | 5.14      | 2.44  | 2.6      | 13          | 7             | 11     | 12                     |
| 1924..... | 32.8        | 68      | -4     | 2.58          | 3.42      | 1.85  | 0.4      | 10          | 8             | 13     | 8                      |
| 1925..... | 34.0        | 61      | -5     | 2.84          | 4.58      | 1.08  | 0.6      | 13          | 7             | 11     | 10                     |
| 1926..... | 28.4        | 52      | -7     | 3.44          | 4.74      | 1.67  | 8.2      | 11          | 7             | 13     | 11                     |
| 1927..... | 35.3        | 70      | 2      | 4.54          | 5.76      | 2.80  | T.       | 13          | 6             | 12     | 12                     |



## Climatological Data for December, 1927

| Stations                             | Counties        | Elevation, feet | Length of record, years | Temperature, in degrees Fahr |                           |         |       |        |       | Precipitation in inches |       |                           |                      | No. of days               |                              |       | Prevailing direction of wind | Observers |            |                                                                                                                      |
|--------------------------------------|-----------------|-----------------|-------------------------|------------------------------|---------------------------|---------|-------|--------|-------|-------------------------|-------|---------------------------|----------------------|---------------------------|------------------------------|-------|------------------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------|
|                                      |                 |                 |                         | Mean                         | Departure from the normal | Highest | Date  | Lowest | Date  | Greatest daily range    | Total | Departure from the normal | Greatest in 24 hours | Total snowfall (unmelted) | Precipitation .01 in or more | Clear |                              |           | Pt. cloudy | Cloudy                                                                                                               |
| The Highlands and Kittatinny Valley. |                 |                 |                         |                              |                           |         |       |        |       |                         |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Belvidere.....                       | Warren.....     | 289             | 36                      | 32.6                         | +2.0                      | 60      | 1     | 12     | 10†   | 30                      | 5.28  | +1.21                     | 1.30                 | 0.4                       | 15                           | 15    | 2                            | 14        | .....      | Miss C. S. Hixson.<br>Newark Water Dept.<br>Brice E. Riker.<br>William C. Harris.                                    |
| Charlotteburg††.....                 | Passaic.....    | 719             | 35                      | 32.9*                        | +3.1                      | 65      | 1     | 9      | 10    | 30                      | 4.80  | +0.47                     | 1.14                 | T.                        | 15                           | 2     | 10                           | 19        | n.         |                                                                                                                      |
| Culvers Lake††.....                  | Sussex.....     | 848             | 26                      | .....                        | .....                     | .....   | ..... | .....  | 10†   | .....                   | 5.40  | +1.74                     | 1.27                 | 0.4                       | 15                           | 12    | 7                            | 12        | nw.        |                                                                                                                      |
| Dover.....                           | Morris.....     | 600             | 43                      | 32.6                         | +2.7                      | 62      | 1     | 11     | 24    | 38                      | 5.44  | +1.14                     | 1.19                 | 0                         | 12                           | 7     | 13                           | 11        | .....      |                                                                                                                      |
| Layton.....                          | Sussex.....     | 480             | 26                      | 30.7                         | +3.3                      | 63      | 1     | 7      | 10    | 34                      | 4.52  | +0.58                     | 1.02                 | 0                         | 13                           | 9     | 5                            | 17        | nw.        | A. M. Depue.<br>Irving J. Kern.<br>Town Engineer.<br>A. J. W. Mowatt.                                                |
| Newton.....                          | Sussex.....     | 769             | 43                      | 30.9 <sup>b</sup>            | +0.8                      | .....   | ..... | 10     | 10†   | .....                   | 4.61  | +0.90                     | 0.70                 | T.                        | 14                           | 10    | 4                            | 17        | nw.        |                                                                                                                      |
| Phillipsburg.....                    | Warren.....     | 363             | 44                      | 32.2*                        | +0.9                      | 64      | 1     | 15     | 10†   | 33                      | 2.80  | -0.94                     | 0.66                 | T.                        | 12                           | 18    | 4                            | 9         | nw.        |                                                                                                                      |
| Sussex.....                          | Sussex.....     | 442             | 32                      | 31.8 <sup>b</sup>            | +1.9                      | 64      | 1     | 8      | 25†   | 34                      | 4.82  | +0.76                     | 0.71                 | T.                        | 11                           | 15    | 5                            | 11        | nw.        |                                                                                                                      |
| Means and extremes...                |                 |                 |                         | 32.0                         | +2.1                      | 65      | 1     | 7      | 10    | 38                      | 4.65  | +0.73                     | 1.30                 | 0.1                       | 13                           | 11    | 6                            | 14        | nw.        |                                                                                                                      |
| The Red Sandstone Plain.             |                 |                 |                         |                              |                           |         |       |        |       |                         |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Bergen Point††.....                  | Hudson.....     | 37              | 30                      | 36.2                         | +3.2                      | 67      | 1     | 16     | 10    | 32                      | 4.01  | -0.37                     | 1.46                 | T.                        | 9                            | 6     | 15                           | 10        | nw.        | William H. Mitchell<br>John Kline.<br>Paul Molitor, Sr.<br>Union County Park Com                                     |
| Boonton.....                         | Morris.....     | 400             | 37                      | 32.0*                        | +1.5                      | 60      | 7†    | 11     | 26†   | 37                      | 4.16  | +0.18                     | 1.01                 | .....                     | 11                           | 17    | 0                            | 14        | nw.        |                                                                                                                      |
| Chatham.....                         | Morris.....     | 185             | 23                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                   | 4.67  | +0.50                     | 1.52                 | .....                     | 8                            | 18    | 3                            | 10        | .....      |                                                                                                                      |
| Elizabeth.....                       | Union.....      | 45              | 48                      | 35.0 <sup>d</sup>            | +1.7                      | 68      | 1     | 12     | 27    | 32                      | 4.00  | +0.04                     | 1.10                 | T.                        | 13                           | 15    | 6                            | 10        | nw.        |                                                                                                                      |
| Flemington.....                      | Hunterdon.....  | 140             | 41                      | 35.1                         | +3.1                      | 67      | 1     | 12     | 10    | 31                      | 5.20  | +1.44                     | 1.61                 | T.                        | 15                           | 15    | 2                            | 14        | w.         | Hiram E. Deats.<br>Charles J. Bates.<br>S. K. Pearson, Jr.<br>Wm. J. Lauderdale.                                     |
| Highwood††.....                      | Bergen.....     | 90              | 39                      | 33.8                         | +2.0                      | 67      | 1     | 10     | 27    | 35                      | 3.50  | +0.71                     | 0.69                 | 0.2                       | 10                           | 12    | 6                            | 13        | nw.        |                                                                                                                      |
| Jersey City.....                     | Hudson.....     | 10              | 29                      | 36.4                         | +2.3                      | 67      | 1     | 15     | 24    | 36                      | 3.66  | -0.27                     | 0.79                 | T.                        | 12                           | 11    | 9                            | 11        | nw.        |                                                                                                                      |
| Lambertville.....                    | Hunterdon.....  | 370             | 40                      | 34.2                         | +0.6                      | 65      | 1     | 12     | 10    | 30                      | 5.76  | +1.89                     | 2.05                 | T.                        | 14                           | 15    | 5                            | 11        | nw.        |                                                                                                                      |
| Little Falls.....                    | Passaic.....    | 180             | 24                      | 34.0                         | +2.5                      | 65      | 7†    | 13     | 25    | 40                      | 4.00  | -0.09                     | 1.12                 | 0                         | 14                           | 17    | 2                            | 12        | nw.        | Passaic Consol. Water Co<br>N. J. Experiment Station.<br>Hackensack Water Co<br>Marion T. Probert.<br>E. D. Pearson. |
| New Brunswick.....                   | Middlesex.....  | 110             | 74                      | 35.9                         | +2.7                      | 69      | 1     | 13     | 25    | 32                      | 4.31  | +0.64                     | 1.55                 | T.                        | 12                           | 13    | 5                            | 13        | n.         |                                                                                                                      |
| New Milford†††.....                  | Bergen.....     | 9               | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                   | 3.50  | .....                     | 0.72                 | .....                     | 10                           | ..... | .....                        | .....     | .....      |                                                                                                                      |
| Paterson.....                        | Passaic.....    | 80              | 56                      | 35.0                         | +1.9                      | 66      | 1     | 16     | 24†   | 29                      | 4.15  | +0.09                     | 1.00                 | 0.5                       | 11                           | 20    | 2                            | 9         | nw.        |                                                                                                                      |
| Plainfield.....                      | Union.....      | 120             | 39                      | 34.8                         | +2.1                      | 67      | 1     | 11     | 26    | 35                      | 4.51  | +0.45                     | 1.10                 | T.                        | 12                           | 11    | 8                            | 12        | nw.        |                                                                                                                      |
| Ridgefield.....                      | Bergen.....     | 80              | 10                      | 33.8                         | .....                     | 67      | 1     | 14     | 25†   | 39                      | 3.76  | .....                     | 1.15                 | 0.2                       | 12                           | 11    | 8                            | 12        | nw.        | George P. Kirsten.<br>H. B. TenEyck.<br>T. R. Fenner.<br>Luther Davis.<br>Hackensack Water Co.                       |
| Somerville.....                      | Somerset.....   | 70              | 44                      | 35.2                         | +3.0                      | 66      | 1     | 11     | 10    | 34                      | 4.96  | +1.11                     | 1.75                 | T.                        | 12                           | 15    | 3                            | 13        | w.         |                                                                                                                      |
| South Orange.....                    | Essex.....      | 200             | 57                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                   | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      |                                                                                                                      |
| Verona.....                          | Essex.....      | 490             | 1                       | 33.6                         | .....                     | 62      | 1     | 13     | 24†   | 36                      | 4.09  | .....                     | 1.34                 | 0.1                       | 13                           | 12    | 7                            | 12        | nw.        |                                                                                                                      |
| Woodcliff Lake†††.....               | Bergen.....     | 100             | 9                       | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                   | 4.46  | .....                     | 0.86                 | .....                     | 12                           | ..... | .....                        | .....     | .....      |                                                                                                                      |
| New York, N. Y.....                  |                 | 365             | 57                      | 36.6                         | +1.6                      | 67      | 1     | 15     | 24    | 38                      | 3.39  | -0.06                     | 1.02                 | T.                        | 11                           | 9     | 10                           | 12        | nw.        | U. S. Weather Bureau.                                                                                                |
| Means and extremes...                |                 |                 |                         | 34.6                         | +2.2                      | 69      | 1     | 10     | 27    | 40                      | 4.32  | +0.49                     | 2.05                 | 0.1                       | 12                           | 14    | 5                            | 12        | nw.        |                                                                                                                      |
| The Southern Interior.               |                 |                 |                         |                              |                           |         |       |        |       |                         |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Belleplain.....                      | Cape May.....   | 30              | 33                      | 37.5 <sup>d</sup>            | +2.4                      | 66      | 1     | 6      | 10    | 36                      | 3.02  | -0.93                     | .....                | 0                         | 11                           | ..... | .....                        | .....     | .....      | Thomas J. Durell.<br>Paul T. Kornman.<br>Public Service Power Co.                                                    |
| Bridgeton††.....                     | Cumberland..... | 90              | 46                      | .....                        | .....                     | 66      | 1     | 12     | 10    | 37                      | 3.96  | +0.14                     | 0.96                 | 0                         | 10                           | ..... | .....                        | .....     | .....      |                                                                                                                      |
| Burlington.....                      | Burlington..... | 12              | 41                      | 38.2                         | +4.4                      | 67      | 1     | 15     | 10    | 28                      | 5.25  | +0.93                     | 1.90                 | T.                        | 14                           | 10    | 6                            | 15        | sw.        |                                                                                                                      |
| Clayton.....                         | Gloucester..... | 130             | 30                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                   | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      |                                                                                                                      |
| Hammonton.....                       | Atlantic.....   | 103             | 24                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                   | ..... | .....                     | .....                | .....                     | .....                        | ..... | .....                        | .....     | .....      | Charles Welsh.<br>Frank M. Lawrence.<br>James M. Armstrong.                                                          |
| Hightstown.....                      | Mercer.....     | 120             | 33                      | 36.0                         | +3.4                      | 63      | 8†    | 11     | 25    | 37                      | 4.59  | +0.90                     | 1.66                 | T.                        | 12                           | 15    | 7                            | 9         | nw.        |                                                                                                                      |
| Imlaystown.....                      | Monmouth.....   | 115             | 37                      | .....                        | .....                     | 66      | 1     | .....  | ..... | .....                   | 3.24  | -0.43                     | 1.25                 | T.                        | 10                           | ..... | .....                        | .....     | .....      |                                                                                                                      |
| Indian Mills††.....                  | Burlington..... | 76              | 38                      | 38.2                         | +4.4                      | 66      | 1     | 8      | 10    | 36                      | 4.79  | +0.39                     | 1.27                 | 0                         | 11                           | 11    | 7                            | 13        | nw.        |                                                                                                                      |
| Lakewood.....                        | Ocean.....      | 54              | 23                      | 36.8                         | +3.3                      | 69      | 1     | 12     | 10†   | 33                      | 5.57  | +0.93                     | 1.40                 | T.                        | 11                           | 12    | 4                            | 15        | nw.        | R. W. Holman.<br>John B. Warrick.<br>William L. Flick.<br>N. J. Dept. Conservation.                                  |
| Moorestown.....                      | Burlington..... | 75              | 64                      | 37.4                         | +3.9                      | 65      | 1     | 12     | 10†   | 30                      | 5.37  | +1.68                     | 1.50                 | T.                        | 13                           | 13    | 4                            | 14        | nw.        |                                                                                                                      |
| Northfield††.....                    | Atlantic.....   | 25              | 20                      | .....                        | .....                     | .....   | ..... | .....  | ..... | .....                   | 4.55  | +0.43                     | 1.16                 | .....                     | 12                           | ..... | .....                        | .....     | .....      |                                                                                                                      |
| Pleasantville††.....                 | Atlantic.....   | 26              | 29                      | 36.6                         | .....                     | 65      | 13    | 9      | 10    | 35                      | 4.69  | +0.45                     | 1.40                 | .....                     | 11                           | 16    | 4                            | 11        | nw.        |                                                                                                                      |
| Riverton.....                        | Burlington..... | .....           | 1                       | 35.8                         | .....                     | 67      | 1     | 14     | 10    | 42                      | 4.98  | .....                     | 2.34                 | T.                        | 14                           | 8     | 6                            | 17        | nw.        | Japanese Beetle Laboratory<br>N. J. Dept. Conservation.<br>U. S. Weather Bureau.<br>John H. Brown.<br>H. C. Himes    |
| Runyon††.....                        | Middlesex.....  | 18              | 3                       | 34.6                         | .....                     | 69      | 1     | 2      | 27    | 40                      | 4.62  | .....                     | 1.20                 | .....                     | 11                           | 14    | 10                           | 7         | w.         |                                                                                                                      |
| Trenton.....                         | Mercer.....     | 190             | 55                      | 36.8                         | +2.4                      | 68      | 1     | 16     | 25    | 40                      | 5.36  | +2.20                     | 2.77                 | T.                        | 12                           | 9     | 5                            | 17        | nw.        |                                                                                                                      |
| Tuckerton.....                       | Ocean.....      | 23              | 34                      | 38.3                         | +3.9                      | 66      | 1     | 11     | 25    | 30                      | 5.23  | +0.72                     | 1.30                 | T.                        | 12                           | 16    | 4                            | 11        | nw.        |                                                                                                                      |
| Vineland.....                        | Cumberland..... | 109             | 58                      | 38.8                         | +4.3                      | 65      | 8†    | 14     | 10†   | 28                      | 3.80  | -0.02                     | 0.95                 | 0                         | 11                           | 12    | 8                            | 11        | nw.        |                                                                                                                      |
| Philadelphia, Pa.....                |                 | 117             | 56                      | 38.9                         | +2.6                      | 67      | 1     | 18     | 25    | 38                      | 3.99  | +0.95                     | 1.72                 | T.                        | 13                           | 9     | 6                            | 16        | nw.        | U. S. Weather Bureau.                                                                                                |
| Means and extremes...                |                 |                 |                         | 37.1                         | +3.6                      | 69      | 1     | 2      | 27    | 42                      | 4.65  | +0.60                     | 2.77                 | T.                        | 12                           | 12    | 6                            | 13        | nw.        |                                                                                                                      |
| The Sea Coast.                       |                 |                 |                         |                              |                           |         |       |        |       |                         |       |                           |                      |                           |                              |       |                              |           |            |                                                                                                                      |
| Asbury Park.....                     | Monmouth.....   | 22              | 38                      | 37.8*                        | +2.8                      | 70      | 1     | 15     | 25    | 35                      | 5.09  | +1.24                     | 1.70                 | T.                        | 10                           | 17    | 5                            | 9         | nw.        | Information Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.<br>U. S. Weather Bureau.                       |
| Atlantic City.....                   | Atlantic.....   | 16              | 54                      | 39.1                         | +2.7                      | 66      | 1     | 16     | 25    | 32                      | 4.84  | +1.10                     | 2.01                 | T.                        | 13                           | 11    | 7                            | 13        | nw.        |                                                                                                                      |
| Cape May City.....                   | Cape May.....   | 17              | 43                      | 38.9                         | +0.9                      | 66      | 1     | 18     | 10    | 36                      | 4.79  | +1.01                     | 1.62                 | T.                        | 9                            | 12    | 5                            | 14        | nw.        |                                                                                                                      |
| Sandy Hook.....                      | Monmouth.....   | 22              | 29                      | 36.7                         | +2.3                      | 67      | 1     | 18     | 24    | 37                      | 4.63  | +0.67                     | 1.54                 | T.                        | 11                           | 11    | 7                            | 13        | nw.        |                                                                                                                      |
| Means and extremes...                |                 |                 |                         | 38.1                         | +2.2                      | 70      | 1     | 15     | 25    | 37                      | 4.84  | +1.00                     | 2.01                 | T.                        | 11                           | 13    | 6                            | 12        | nw.        |                                                                                                                      |
| For the State.....                   |                 |                 |                         | 35.3                         | +2.6                      | 70      | 1     | 2      | 27    | 42                      | 4.54  | +0.63                     | 2.77                 | T.                        | 12                           | 13    | 6                            | 12        | nw.        |                                                                                                                      |

† On other dates also.

§ Length of precipitation record; temperature record is much shorter.

§ Incomplete.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

†† Received too late to be included in the means.

Reference letters, a, b, c, etc., appearing in the table indicate number of days missing; for example, b represents 2 days, etc.

T, precipitation is less than 0.01 inch rain or melted snow.

†† Post-office address as follows.—Culvers Lake is Branchville; Bergen Point is Bayonne; Highwood is Englewood; Indian Mills is Atsion; New Milford and Woodcliff Lake are Union City; Northfield is Pleasantville; Pleasantville and Runyon are Trenton; Charlotteburg is Newfoundland.

Highwood (above)

Precipitation departure:

plus 0.71, should read minus 0.71



Except as otherwise indicated, observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at the time of observation. \*\*\* Regular Weather Bureau station; precipitation is for 24-hour period, midnight to midnight. † Separate dates of falls not recorded. †† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. § Incomplete or missing. \* Precipitation included in the next following measurement. \*\* Precipitation for 24-hour period from midnight to midnight. T. Trace, or less than 0.01 inch.

[illegible]



Daily Temperatures for December, 1927

| Stations                             | 1            | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    | 31    | Mean              |                   |      |
|--------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------------------|------|
| The Highlands and Kittatinny Valley. |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |
| Belvidere.....                       | Maximum..... | 60    | 40    | 39    | 28    | 39    | 41    | 53    | 59    | 34    | 33    | 34    | ..... | 47    | 54    | 45    | 42    | 42    | 31    | 25    | 33    | 39    | 39    | 36    | 29    | 37    | 34    | 43    | 46    | 43    | 43    | 52                | 40.7 <sup>a</sup> |      |
|                                      | Minimum..... | 33    | 24    | 26    | 17    | 19    | 26    | 26    | 32    | 14    | 12    | 28    | 32    | 34    | 40    | 29    | 30    | 24    | 18    | 16    | 22    | 30    | 30    | 21    | 14    | 13    | 12    | 13    | 18    | 35    | 36    | 36                | 24.5              |      |
| Charlotteburg.....                   | Maximum..... | 65    | 40    | 38    | 35    | 37    | 45    | 52    | 60    | 38    | ..... | ..... | 54    | 55    | 58    | 47    | 39    | 41    | 26    | 30    | 34    | 33    | 35    | 28    | 38    | 34    | 44    | 46    | 46    | 52    | 45    | 42                | 29.5              |      |
|                                      | Minimum..... | 35    | 24    | 32    | 16    | 19    | 31    | 22    | 35    | 14    | 9     | 25    | 32    | 34    | 30    | 30    | 28    | 22    | 15    | 14    | 20    | 28    | 26    | 19    | 10    | 11    | 14    | 14    | 16    | 34    | 33    | 34                | 23.6              |      |
| Dover.....                           | Maximum..... | 62    | ..... | 39    | 26    | 38    | 46    | 50    | 59    | 46    | 34    | 36    | 53    | 51    | 58    | 48    | 41    | 34    | 27    | 25    | 32    | 37    | 35    | 36    | 30    | 36    | 32    | 43    | 46    | 47    | 49    | 55                | 41.7 <sup>a</sup> |      |
|                                      | Minimum..... | 28    | 27    | 23    | 16    | 17    | 29    | 25    | 21    | 19    | 12    | 26    | 33    | 33    | 42    | 40    | 28    | 19    | 17    | 15    | 23    | 27    | 22    | 21    | 11    | 12    | 15    | 16    | 18    | 31    | 31    | 40                | 23.5              |      |
| Layton.....                          | Maximum..... | 63    | 35    | 36    | 25    | 38    | 46    | 50    | 59    | 27    | 31    | 37    | 55    | 40    | 60    | 40    | 36    | 37    | 27    | 26    | 31    | 35    | 35    | 35    | 27    | 35    | 29    | 45    | 46    | 45    | 44    | 52                | 39.6              |      |
|                                      | Minimum..... | 32    | 22    | 25    | 17    | 21    | 21    | 21    | 27    | 15    | 7     | 29    | 34    | 30    | 38    | 26    | 26    | 20    | 14    | 23    | 26    | 24    | 17    | 10    | 11    | 10    | 12    | 12    | 26    | 33    | 33    | 21.8              |                   |      |
| Newton.....                          | Maximum..... | ..... | 34    | 36    | 27    | 38    | 46    | 53    | ..... | 25    | 34    | 35    | 55    | 48    | ..... | 42    | 42    | 42    | 26    | 21    | 32    | 36    | 34    | 34    | 27    | 35    | 31    | 44    | 47    | 44    | 44    | 52                | 38.8              |      |
|                                      | Minimum..... | 29    | 26    | 24    | 14    | 18    | 28    | ..... | 20    | 13    | 10    | 28    | 32    | 35    | 40    | 30    | 27    | 22    | 19    | 14    | 21    | 28    | 27    | 24    | 10    | 10    | 14    | 17    | 23    | 35    | 33    | 42                | 32.8              |      |
| Phillipsburg.....                    | Maximum..... | 64    | 40    | 40    | 28    | ..... | 50    | ..... | 25    | 34    | 35    | ..... | 43    | 54    | 39    | ..... | 34    | 24    | 26    | 36    | 34    | 38    | 36    | 32    | 32    | 31    | ..... | 44    | 39    | 40    | 50    | 37.9 <sup>a</sup> |                   |      |
|                                      | Minimum..... | 31    | 31    | 26    | 22    | 27    | 27    | 27    | 24    | 17    | 15    | 30    | 35    | 36    | 38    | 33    | 31    | 23    | 22    | 19    | 26    | 31    | 27    | 25    | 16    | 16    | 17    | 15    | 19    | 36    | 38    | 38                | 26.4              |      |
| Sussex.....                          | Maximum..... | 64    | 43    | 37    | 29    | 40    | 47    | 50    | 60    | 50    | 34    | 34    | ..... | 56    | 48    | 39    | 38    | 28    | 25    | 31    | 34    | 35    | 36    | 29    | 35    | 31    | 45    | 47    | 43    | 43    | 53    | 40                | 48.5 <sup>b</sup> |      |
|                                      | Minimum..... | 36    | 24    | 28    | 16    | 19    | 27    | 24    | 32    | 16    | 12    | 27    | ..... | 30    | 28    | 27    | 23    | 13    | 16    | 24    | 29    | 27    | 19    | 11    | 8     | 8     | 13    | 15    | 35    | 36    | 34    | 22.7 <sup>b</sup> |                   |      |
| The Red Sandstone Plain.             |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |
| Bergen Point.....                    | Maximum..... | 67    | 47    | 41    | ..... | 33    | 40    | 55    | 61    | 29    | 35    | 37    | 56    | 50    | 59    | 43    | 47    | 40    | 40    | 29    | 35    | 40    | 37    | 39    | 30    | 39    | 31    | 43    | 42    | 50    | 51    | 49                | 43.2 <sup>a</sup> |      |
|                                      | Minimum..... | 36    | 33    | 29    | 22    | 28    | 35    | 36    | 29    | 22    | 16    | 33    | 36    | 40    | 43    | 34    | 35    | 25    | 25    | 20    | 35    | 40    | 37    | 39    | 30    | 39    | 31    | 43    | 42    | 50    | 51    | 49                | 43.2 <sup>a</sup> |      |
| Boontonss.....                       | Maximum..... | 42    | 41    | 36    | ..... | 60    | 60    | 60    | 27    | 31    | 40    | ..... | 53    | ..... | 45    | 34    | 30    | 32    | 36    | 38    | 38    | 36    | 38    | 36    | 25    | 40    | 35    | 45    | 48    | 48    | 47    | 59                | 41.0 <sup>a</sup> |      |
|                                      | Minimum..... | 38    | 26    | 31    | 18    | 19    | 28    | 23    | 27    | 17    | 12    | 17    | 30    | 32    | 37    | 29    | 25    | 17    | 17    | 28    | 28    | 24    | 13    | 12    | 11    | 11    | 12    | 18    | 34    | 34    | 23    | 0                 | 21.0 <sup>a</sup> |      |
| Elizabeth.....                       | Maximum..... | 68    | 43    | 43    | 34    | ..... | ..... | ..... | 41    | 36    | 37    | 59    | 53    | 60    | 50    | 46    | 47    | 31    | 29    | 35    | 41    | 38    | 38    | 34    | 35    | 39    | 36    | 44    | 50    | 49    | 62    | 43                | 48.8 <sup>a</sup> |      |
|                                      | Minimum..... | 37    | 37    | 34    | ..... | 26    | 26    | 25    | 39    | 17    | 13    | 27    | ..... | 30    | 34    | 26    | 19    | 19    | 24    | 30    | 29    | 23    | 15    | 15    | 17    | 12    | 18    | 35    | 39    | 41    | 26    | 21                | 26.2 <sup>a</sup> |      |
| Flemington.....                      | Maximum..... | 67    | 41    | 40    | 32    | 42    | 51    | 53    | 62    | 37    | 36    | 35    | 55    | 49    | 61    | 46    | 45    | 46    | 31    | 29    | 36    | 42    | 39    | 37    | 30    | 41    | 34    | 45    | 48    | 49    | 46    | 52                | 43.8              |      |
|                                      | Minimum..... | 37    | 30    | 32    | 21    | 26    | 28    | 25    | 37    | 16    | 12    | 27    | 34    | 35    | 42    | 30    | 30    | 25    | 20    | 17    | 24    | 30    | 31    | 24    | 16    | 15    | 18    | 14    | 17    | 32    | 37    | 37                | 26.4              |      |
| Highwood.....                        | Maximum..... | 67    | 43    | 38    | 32    | 44    | 53    | 61    | 31    | 34    | 35    | 56    | 42    | 54    | 41    | 45    | 41    | 29    | 28    | 36    | 41    | 38    | 38    | 24    | 16    | 15    | 18    | 14    | 17    | 32    | 37    | 37                | 21.8              |      |
|                                      | Minimum..... | 32    | 28    | 29    | 20    | 28    | 27    | 26    | 29    | 14    | 29    | 34    | 33    | 39    | 28    | 31    | 24    | 20    | 18    | ..... | 30    | 27    | 24    | 14    | 16    | 10    | 10    | 12    | 42    | 45    | 46    | 44                | 55                | 41.4 |
| Jersey City.....                     | Maximum..... | 67    | 50    | 40    | 32    | 42    | 47    | 54    | 63    | 28    | 36    | 32    | 56    | 55    | 60    | 42    | 51    | 36    | 32    | 30    | 35    | 40    | 40    | 39    | 31    | 38    | 33    | 42    | 40    | 27    | 37    | 35                | 25.8 <sup>a</sup> |      |
|                                      | Minimum..... | 34    | 35    | 28    | 24    | 29    | 32    | 39    | 27    | 16    | 16    | 32    | 38    | 41    | 40    | 35    | 31    | 27    | 21    | 18    | 26    | 30    | 29    | 28    | 15    | 16    | 18    | 19    | 31    | 40    | 38    | 42                | 28.9              |      |
| Lambertville.....                    | Maximum..... | 65    | 44    | 40    | 29    | 36    | 44    | 59    | 61    | 31    | 34    | 37    | 54    | 50    | 62    | 42    | 48    | 34    | 28    | 25    | 37    | 38    | 37    | 36    | 29    | 35    | 16    | 18    | 19    | 41    | 40    | 38                | 42                | 28.9 |
|                                      | Minimum..... | 35    | 29    | 29    | 21    | 25    | 29    | 29    | 31    | 15    | 12    | 27    | 34    | 39    | 41    | 30    | 32    | 24    | 23    | 16    | 23    | 29    | 30    | 26    | 17    | 14    | 16    | 10    | 20    | 47    | 50    | 49                | 55                | 41.8 |
| Little Fallsss.....                  | Maximum..... | 43    | 39    | 37    | 36    | 42    | 49    | 65    | 65    | 31    | 34    | 45    | 58    | 60    | 56    | 38    | 42    | 34    | 30    | 30    | 35    | 39    | 38    | 35    | 32    | 37    | 34    | 45    | 49    | 49    | 44    | 49                | 36                | 26.5 |
|                                      | Minimum..... | 39    | 29    | 33    | 19    | 26    | 31    | 25    | 31    | 18    | 15    | 23    | 32    | 33    | 38    | 30    | 26    | 20    | 18    | 20    | 29    | 28    | 22    | 14    | 13    | 16    | 14    | 20    | 26    | 36    | 37    | 25.5              |                   |      |
| New Brunswick.....                   | Maximum..... | 69    | 45    | 41    | 34    | 39    | 48    | 55    | 64    | 36    | 36    | 36    | 55    | 51    | 67    | 48    | 50    | 51    | 29    | 27    | 35    | 40    | 38    | 36    | 30    | 38    | 34    | 41    | 47    | 51    | 49    | 56                | 44.4              |      |
|                                      | Minimum..... | 37    | 31    | 33    | 21    | 26    | 27    | 29    | 36    | 17    | 14    | 27    | 34    | 37    | 45    | 33    | 34    | 26    | 21    | 18    | 24    | 30    | 30    | 25    | 17    | 13    | 15    | 15    | 20    | 37    | 38    | 39                | 27.4              |      |
| Paterson.....                        | Maximum..... | 66    | 39    | 39    | 34    | 40    | 45    | 52    | 63    | 35    | 24    | 36    | 55    | 44    | 56    | 45    | 43    | 43    | 30    | 28    | 34    | 30    | 30    | 25    | 17    | 13    | 15    | 15    | 20    | 37    | 38    | 39                | 27.4              |      |
|                                      | Minimum..... | 37    | 32    | 29    | 20    | 25    | 31    | 29    | 35    | 20    | 17    | 29    | 35    | 38    | 42    | 33    | 31    | 27    | 22    | 19    | 25    | 31    | 30    | 28    | 16    | 16    | 16    | 26    | 38    | 39    | 41    | 28.2              |                   |      |
| Plainfield.....                      | Maximum..... | 67    | 50    | 41    | 29    | 42    | 47    | 56    | 63    | 28    | 36    | 42    | 56    | 55    | 61    | 42    | 51    | 36    | 29    | 30    | 34    | 40    | 39    | 29    | 38    | 32    | 42    | 47    | 49    | 49    | 56    | 43.7              |                   |      |
|                                      | Minimum..... | 33    | 33    | 29    | 20    | 28    | 26    | 23    | 28    | 16    | 12    | 26    | 33    | 42    | 36    | 34    | 31    | 23    | 17    | 17    | 25    | 29    | 29    | 30    | 24    | 10    | 11    | 16    | 30    | 36    | 35    | 39                | 26.0              |      |
| Ridgefield.....                      | Maximum..... | 67    | 45    | 38    | 31    | 40    | 47    | 56    | 63    | 25    | 34    | 39    | 51    | 45    | 54    | 36    | 46    | 33    | 29    | 25    | 35    | 41    | 36    | 36    | 27    | 36    | 32    | 43    | 46    | 48    | 44    | 54                | 41.5              |      |
|                                      | Minimum..... | 30    | 31    | 24    | 21    | 29    | 29    | 28    | 24    | 18    | 16    | 30    | 37    | 39    | 35    | 30    | 29    | 24    | 21    | 18    | 24    | 26    | 25    | 14    | 15    | 16    | 14    | 23    | 38    | 36    | 40    | 26.1              |                   |      |
| Somerville.....                      | Maximum..... | 66    | 45    | 40    | ..... | 40    | 48    | 56    | 65    | 37    | 37    | 36    | 55    | 50    | 59    | 48    | 47    | 48    | 30    | 28    | 37    | 41    | 39    | 38    | 31    | 40    | 36    | 42    | 49    | 49    | 53    | 44.6 <sup>a</sup> |                   |      |
|                                      | Minimum..... | 37    | 30    | 32    | 22    | 25    | 24    | 22    | 36    | 17    | 11    | 24    | 34    | 33    | 44    | 25    | 33    | 26    | 17    | 19    | 25    | 30    | 30    | 19    | 17    | 15    | 12    | 13    | 15    | 36    | 38    | 39                | 25.8              |      |
| South Orange.....                    | Maximum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
|                                      | Minimum..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....             | .....             |      |
| Verona.....                          | Maximum..... | 62    | 39    | 36    | 26    | 37    | 45    | 52    | 61    | 25    | 33    | 37    | 54    | 51    | 58    | 41    | 42    | 32    | 27    | 26    | 32    | 37    | 36    | 36    | 28    | 36    | 31    | 42    | 46    | 48    | 48    | 56                | 40.6              |      |
|                                      | Minimum..... | 32    | 29    | 26    | 18    | 25    | 31    | 32    | 25    | 16    | 14    | 29    | 37    | 38    | 41    | 32    | 29    | 24    | 23    | 16    | 23    | 29    | 28    | 26    | 13    | 13    | 15    | 17    | 29    | 37    | 37    | 41                | 26.6              |      |
| New York, N. Y.....                  | Maximum..... | 67    | 50    | 41    | 33    | 42    | 47    | 54    | 63    | 28    | 36    | 42    | 56    | 54    | 59    | 42    | 51    | 36    | 33    | 30    | 35    | 40    | 40    | 39    | 32    | 38    | 33    | 42    | 48    | 50    | 49    | 55                | 44.0              |      |
|                                      | Minimum..... | 34    | 35    | 27    | 24    | 30    | 33    | 40    | 25    | 19    | 17    | 33    | 39    | 41    | 40    | 35    | 31    | 27    | 22    | 18    | 26    | 30    | 29    | 29    | 15    | 16    | 18    | 19    | 32    | 40    | 39    | 43                | 29.2              |      |
| The Southern Interior.               |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |
| Belleplain.....                      | Maximum..... | 66    | ..... | ..... | ..... | 52    | 62    | 65    | 40    | 38    | 54    | 60    | 64    | 65    | 52    | 53    | 51    | 34    | 30    | 38    | 44    | 39    | 39    | 41    | 39    | 32    | 41    | 49    | 58    | 51    | 55    | 48.6 <sup>a</sup> |                   |      |
|                                      | Minimum..... | 41    | ..... | ..... | 26    | 20    | 26    | 39    | 17    | 6     | 31    | 48    | 38    | 51    | 23    | 40    | 23    | 13    | 11    | 21    | 29    | 30    | 21    | 19    | 11    | 10    | 11    | 12    | 87    | 42    | 43    | 26.4 <sup>a</sup> |                   |      |
| Bridgeton.....                       | Maximum..... | 66    | 51    | 46    | 35    | 40    | 57    | 57    | 62    | ..... | 38    | 53    | 60    | 61    | 63    | 53    | 52    | 40    | ..... | 31    | 37    | 38    | 39    | ..... | 29    | 36    | 33    | ..... | ..... | ..... | ..... | .....             | 46.8 <sup>b</sup> |      |
|                                      | Minimum..... | 37    | 34    | 35    | 26    | 25    | 24    | 34    | 25    | 17    | 12    | 29    | 46    | 43    | 36    | 27    | 40    | 21    | 26    | 21    | 24    | 25    | 32    | 22    | 19    | 14    | 15    | ..... | ..... | ..... | ..... | .....             | 27.3 <sup>a</sup> |      |
| Burlington.....                      | Maximum..... | 67</  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |                   |      |

<sup>a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.</sup>  
to the preceding day, on which it almost always occurs.

§§ Instruments are read in the morning: the maximum temperature then read is charged

Daily Evaporation (thousandths of an inch) and Wind Movement (miles)

[illegible]

Note: Evaporation determined by measuring amount returned to pan to maintain standard level, less precipitation record.

**\*\*Observations taken in the morning, and entered on preceding day.**

\* Measurement included in next following



# CLIMATOLOGICAL DATA.

NEW JERSEY SECTION,  
G. HAROLD NOYES, Meteorologist.  
TRENTON, N. J.

VOL. XXXII. ANNUAL SUMMARY, 1927. No. 13

## GENERAL SUMMARY.

There were several features of the weather during 1927 which, by accumulation, made the year seem somewhat extraordinary. The five warmer months of the year, April through August, were distinctly subnormal in warmth; while all the colder months of the year, except January, were notably above normal in warmth. The year as a whole consecutive period was but a fraction of a degree above normal. In fact the period of a year is so long that temperatures very closely equalize themselves toward normal. Since 1885, when State averages were first compiled, there has not been one year when temperatures have averaged more than 2.6° above or below normal.

There have been, also, notable features of precipitation. The first half of the year was constantly deficient in precipitation of both rain and snow, except that there was a slight excess of snow in January. But the latter half was excessively rainy, so that the lack of the first half was more than overcome, and the year totaled one of the wettest in the past 25 years. One generous snowstorm occurred on January 15th, but other snows were without importance.

A severe coast storm prevailed on February 19-20th, which caused general damage. March was one of the four driest on record, and was very pleasant. August mean temperature for the State was the lowest on record since State averages have been compiled in 1885, and the weather was noticeably disagreeable because of excessive humidity and fog.

The mean temperature for the year, 52.0°, was 0.4° above normal. The warmest month was July, 72.7°, and the coldest, January, 29.2°. The highest temperature was 99° at Somerville and Runyon on July 13th, and the lowest, 12° below zero at Culvers Lake on January 27th. The highest mean temperature was 54.2° at Burlington, and the lowest, 48.5° at Layton. The greatest annual range of temperature was 104° at Layton.

The average precipitation for the State was 49.68 inches, which was 2.95 inches above normal. The greatest monthly average was 8.55 inches in August, and the least, 1.46 inches in March. The greatest monthly amount of precipitation was 14.07 inches at Tuckerton in October, and the least, 0.65 inch at Phillipsburg in September. The greatest annual precipitation was 61.49 inches at Little Falls, and the least, 31.47 inches at Phillipsburg.

The average snowfall for the State was 13.7 inches, which was 15.2 inches below normal. The greatest annual snowfall was 37.4 inches at Sussex, and the least, 5.3 inches at Atlantic City.

The average number of days on which 0.01 inch or more precipitation occurred was 125, which was 11 more than normal. The average number of clear days was 156, which was 4 more than normal; partly cloudy, 90, which was 19 less than normal; cloudy, 119, which was 15 more than normal.

The prevailing wind direction was from the northwest; the highest velocity was 84 miles per hour from the northeast at Atlantic City on February 20th.

Light hail with no damage fell at Burlington on April 5th, and at Asbury Park on the 21st; over scattered localities on May 15th and over interior localities on May 26th; Ocean and Monmouth counties on July 7th, also over portions of Essex and Bergen counties; on July 27th at Layton; northeastern quarter of the State on August 1st, 2d, 5th, 8th and 29th; and at Ridge-

field on October 19th. The occurrence on May 26th did light damage to a few tender plants in Burlington county.

## COMPARATIVE ANNUAL DATA FOR THE STATE

| Year | Temperature |         |        | Average precipitation | Average snowfall | Year | Temperature |         |        | Average precipitation | Average snowfall |
|------|-------------|---------|--------|-----------------------|------------------|------|-------------|---------|--------|-----------------------|------------------|
|      | Mean        | Highest | Lowest |                       |                  |      | Mean        | Highest | Lowest |                       |                  |
| 1885 | 50.5        | 100     | -2     | 37.87                 | .....            | 1908 | 52.6        | 106     | -17    | 42.58                 | 35.3             |
| 1886 | 50.2        | 98      | -10    | 46.54                 | .....            | 1909 | 52.0        | 100     | -15    | 40.86                 | 29.9             |
| 1887 | 51.1        | 102     | -6     | 47.66                 | .....            | 1910 | 52.0        | 99      | -15    | 39.73                 | 33.3             |
| 1888 | 50.0        | 99      | -12    | 52.20                 | .....            | 1911 | 52.6        | 104     | -12    | 50.36                 | 30.0             |
| 1889 | 52.8        | 95      | -3     | 63.33                 | .....            | 1912 | 51.3        | 100     | -32    | 46.61                 | 35.1             |
| 1890 | 53.2        | 101     | 0      | 49.84                 | .....            | 1913 | 54.2        | 100     | -11    | 46.99                 | 5.2              |
| 1891 | 53.2        | 102     | 1      | 47.98                 | .....            | 1914 | 51.4        | 99      | -12    | 39.23                 | 41.1             |
| 1892 | 51.4        | 105     | -6     | 42.04                 | .....            | 1915 | 52.5        | 98      | -3     | 47.37                 | 35.4             |
| 1893 | 50.8        | 103     | -21    | 47.90                 | .....            | 1916 | 51.2        | 100     | -18    | 38.17                 | 49.6             |
| 1894 | 53.0        | 106     | -11    | 47.37                 | .....            | 1917 | 49.6        | 104     | -21    | 40.80                 | 40.4             |
| 1895 | 51.7        | 109     | -12    | 37.29                 | 25.7             | 1918 | 51.2        | 108     | -16    | 37.65                 | 25.3             |
| 1896 | 51.7        | 105     | -15    | 42.51                 | 39.5             | 1919 | 52.5        | 103     | -12    | 52.10                 | 10.9             |
| 1897 | 52.0        | 102     | -6     | 51.72                 | 25.8             | 1920 | 51.2        | 98      | -17    | 51.87                 | 33.4             |
| 1898 | 53.2        | 107     | -15    | 52.35                 | 34.3             | 1921 | 54.1        | 100     | -5     | 38.16                 | 23.0             |
| 1899 | 52.1        | 103     | -21    | 45.84                 | 44.3             | 1922 | 52.6        | 98      | -11    | 41.57                 | 30.5             |
| 1900 | 53.8        | 104     | -9     | 42.71                 | 23.3             | 1923 | 51.9        | 106     | -14    | 40.34                 | 39.3             |
| 1901 | 51.4        | 107     | -8     | 51.80                 | 14.1             | 1924 | 50.7        | 102     | -6     | 44.17                 | 24.3             |
| 1902 | 51.8        | 100     | -11    | 59.44                 | 40.1             | 1925 | 52.1        | 103     | -20    | 42.15                 | 26.9             |
| 1903 | 51.7        | 100     | -16    | 56.25                 | 22.3             | 1926 | 50.0        | 105     | -11    | 44.41                 | 32.2             |
| 1904 | 49.9        | 100     | -34    | 43.78                 | 48.5             | 1927 | 52.0        | 99      | -12    | 49.68                 | 13.7             |
| 1905 | 51.3        | 102     | -13    | 42.06                 | 32.9             |      |             |         |        |                       |                  |
| 1906 | 52.8        | 98      | -15    | 46.38                 | 23.4             |      |             |         |        |                       |                  |
| 1907 | 50.4        | 96      | -22    | 51.65                 | 54.1             |      |             |         |        |                       |                  |

## MONTHLY STATE DATA FOR 1927

| Month     | Temperature |                       |         |        | Precipitation |                       |          |       |      |                       |
|-----------|-------------|-----------------------|---------|--------|---------------|-----------------------|----------|-------|------|-----------------------|
|           | Mean        | Departure from normal | Highest | Lowest | Average       | Departure from normal | Greatest | Least | Snow | Departure from normal |
| January   | 29.2        | -0.7                  | 70      | -12    | 2.22          | -1.39                 | 3.32     | 1.19  | 7.9  | +0.5                  |
| February  | 36.1        | +6.5                  | 66      | 4      | 3.12          | -0.43                 | 4.55     | 2.18  | 5.1  | -1.5                  |
| March     | 41.9        | +3.3                  | 81      | 9      | 1.46          | -2.42                 | 2.73     | 0.78  | 0.3  | -5.5                  |
| April     | 47.5        | -1.9                  | 93      | 17     | 2.42          | -1.25                 | 3.97     | 1.00  | 0.3  | -1.2                  |
| May       | 58.1        | -2.3                  | 88      | 30     | 3.65          | -0.21                 | 8.16     | 1.93  | 0.0  | 0.0                   |
| June      | 65.4        | -3.2                  | 97      | 31     | 3.16          | -0.60                 | 5.24     | 1.46  | 0.0  | 0.0                   |
| July      | 72.7        | -1.0                  | 99      | 36     | 6.06          | +1.27                 | 9.34     | 2.95  | 0.0  | 0.0                   |
| August    | 67.1        | -4.9                  | 89      | 37     | 8.55          | +3.48                 | 12.87    | 2.88  | 0.0  | 0.0                   |
| September | 65.6        | +0.1                  | 97      | 29     | 2.66          | -1.17                 | 5.03     | 0.65  | 0.0  | 0.0                   |
| October   | 56.8        | +1.8                  | 94      | 23     | 7.82          | +4.10                 | 14.07    | 2.81  | 0.0  | 0.0                   |
| November  | 47.9        | +5.0                  | 83      | 15     | 4.02          | +0.94                 | 8.68     | 1.74  | 0.1  | -1.1                  |
| December  | 35.3        | +2.6                  | 70      | 2      | 4.54          | +0.63                 | 5.76     | 2.80  | T.   | -6.4                  |
| Year      | 52.0        | +0.4                  | 99      | -12    | 49.68         | +2.95                 | 14.07    | 0.65  | 13.7 | -15.2                 |

## KILLING FROSTS

| Stations                            | Last in spring | First in autumn | Stations              | Last in spring | First in autumn |
|-------------------------------------|----------------|-----------------|-----------------------|----------------|-----------------|
| The Highlands and Kittatinny Valley |                |                 | Verona                | Apr. 25        | Nov. 7          |
| Belyidere                           | Apr. 26        | Oct. 31         | The Southern Interior |                |                 |
| Charlotteburg                       | do. 28         | Sept. 24        | Belleplain            | Apr. 26        | Sept. 25        |
| Culvers Lake                        | do. 26         | Oct. 10         | Bridgeton             | do. 25         | Oct. 31         |
| Dover                               | do. 28         | do. 31          | Burlington            | do. 25         | do. 31          |
| Layton                              | do. 30         | do. 11          | Clayton               | .....          | .....           |
| Newton                              | do. 28         | do. 31          | Highstown             | do. 25         | do. 31          |
| Phillipsburg                        | do. 26         | do. 31          | Inlaytown             | do. 26         | .....           |
| Sussex                              | do. 30         | do. 11          | Indian Mills          | do. 26         | do. 31          |
| The Red Sandstone Plain             |                |                 | Lakewood              | do. 26         | do. 31          |
| Bergen Point                        | Apr. 11        | Nov. 7          | Moorestown            | do. 26         | do. 31          |
| Boonton                             | do. 26         | Oct. 11         | Northfield            | do. 25         | .....           |
| Chatham                             | .....          | do. 11          | Pleasantville         | do. 25         | do. 31          |
| Elizabeth                           | Apr. 26        | do. 31          | Riverton              | do. 25         | do. 31          |
| Flemington                          | do. 26         | do. 31          | Runyon                | do. 25         | Sept. 24        |
| Highwood                            | do. 26         | do. 31          | Trenton               | do. 11         | Nov. 7          |
| Jersey City                         | do. 24         | Nov. 7          | Tuckerton             | do. 26         | Oct. 31         |
| Lambertville                        | do. 26         | Oct. 31         | Vineland              | do. 25         | do. 26          |
| Little Falls                        | do. 26         | do. 30          | The Sea Coast         |                |                 |
| New Brunswick                       | do. 26         | do. 31          | Asbury Park           | Apr. 24        | Nov. 7          |
| Paterson                            | do. 26         | do. 31          | Atlantic City         | do. 11         | do. 8           |
| Plainfield                          | do. 26         | do. 11          | Cape May City         | do. 8          | do. 10          |
| Ridgefield                          | do. 26         | do. 31          | Sandy Hook            | Mar. 28        | do. 8           |
| Somerville                          | do. 29         | do. 31          |                       |                |                 |
| South Orange                        | .....          | .....           |                       |                |                 |



## Climatological Data for the Year 1927

| STATION                              | Counties        | Elevation, feet | Temperature (degrees Fahrenheit) |             |         |          |        |         | Precipitation (inches)  |                    |                  |       |               |       | Number days with .01 or more | Sky                       |                   |                           | Prevailing direction of wind |                    |
|--------------------------------------|-----------------|-----------------|----------------------------------|-------------|---------|----------|--------|---------|-------------------------|--------------------|------------------|-------|---------------|-------|------------------------------|---------------------------|-------------------|---------------------------|------------------------------|--------------------|
|                                      |                 |                 | Length of record, years          | Annual mean | Highest | Date     | Lowest | Date    | Length of record, years | Total for the year | Greatest monthly | Month | Least monthly | Month |                              | Total snowfall (unmelted) | Number clear days | Number partly cloudy days |                              | Number cloudy days |
| The Highlands and Kittatinny Valley. |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belvidere.....                       | Warren.....     | 289             | 36                               | 51.5        | 98      | July 13  | -2     | Jan. 27 | 36                      | 51.31              | 7.82             | Aug.  | 1.32          | Sept. | 22.4                         | 124                       | 209               | 40                        | 116                          | .....              |
| Charlotteburg.....                   | Passaic.....    | 719             | 35                               | 48.6        | 94      | do. 13   | -7     | do. 27  | 35                      | 57.81              | 8.68             | Nov.  | 1.52          | Mar.  | 21.0                         | 141                       | 38                | 96                        | 231                          | w.                 |
| Culvers Lake.....                    | Sussex.....     | 848             | 35                               | 50.0        | 95      | do. 13   | -12    | do. 27  | 26                      | 53.21              | 9.18             | Aug.  | 1.73          | Sept. | 37.0                         | 141                       | 186               | 63                        | 116                          | e.                 |
| Dover.....                           | Morris.....     | 600             | 43                               | 49.7        | 95      | July 13  | -4     | do. 27  | 43                      | 55.95              | 8.29             | do.   | 1.60          | Mar.  | 22.3                         | 135                       | 77                | 169                       | 117                          | .....              |
| Layton.....                          | Sussex.....     | 480             | 26                               | 48.5        | 96      | July 13  | -8     | Jan. 27 | 26                      | 54.65              | 8.59             | Aug.  | 1.97          | Mar.  | 34.0                         | 128                       | 153               | 55                        | 157                          | sw.                |
| Newton.....                          | Sussex.....     | 769             | 44                               | 50.0        | 95      | do. 13   | -6     | do. 27  | 41                      | 49.67              | 8.06             | do.   | 1.63          | do.   | 30.7                         | 142                       | 142               | 92                        | 131                          | sw.                |
| Phillipsburg.....                    | Warren.....     | 363             | 36                               | 51.1        | 97      | June 10  | 1      | do. 27  | 44                      | 31.47              | 4.30             | Nov.  | 0.65          | Sept. | 21.1                         | 114                       | 208               | 59                        | 98                           | .....              |
| Sussex.....                          | Sussex.....     | 442             | 29                               | .....       | 95      | July 13  | .....  | .....   | 32                      | .....              | .....            | ..... | 2.11          | Mar.  | 37.4                         | .....                     | .....             | .....                     | .....                        | .....              |
| Means and extremes.....              |                 | .....           | .....                            | 49.9        | 98      | July 13  | -12    | Jan. 27 | .....                   | 50.58              | 9.18             | Aug.  | 0.65          | Sept. | 28.2                         | 132                       | 145               | 82                        | 138                          | sw.                |
| The Red Sandstone Plain.             |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Bergen Point.....                    | Hudson.....     | 37              | 30                               | 53.0        | 97      | July 13† | -2     | Jan. 27 | 30                      | 53.22              | 10.17            | Aug.  | 1.43          | Mar.  | 8.0                          | 114                       | 77                | 208                       | 80                           | nw.                |
| Boonton.....                         | Morris.....     | 400             | 19                               | 49.0        | 92      | do. 13   | -4     | do. 27  | 37                      | 51.18              | 11.22            | do.   | 1.23          | do.   | .....                        | 131                       | 199               | 3                         | 163                          | sw.                |
| Chatham.....                         | Morris.....     | 185             | 37                               | 50.3        | 92      | do. 13   | .....  | .....   | 23                      | 59.65              | 11.66            | do.   | 2.27          | Feb.  | .....                        | 135                       | 221               | 72                        | 72                           | .....              |
| Elizabeth.....                       | Union.....      | 45              | 47                               | 62.3        | 97      | July 13  | 3      | Jan. 27 | 48                      | .....              | 10.26            | do.   | 1.59          | Mar.  | 11.5                         | 135                       | 179               | 91                        | 95                           | nw.                |
| Flemington.....                      | Hunterdon.....  | 140             | 30                               | 52.5        | 97      | July 15  | 1      | Jan. 27 | 41                      | 49.65              | 7.93             | Oct.  | 1.08          | Sept. | 11.5                         | 135                       | 199               | 61                        | 105                          | sw.                |
| Highwood.....                        | Bergen.....     | 90              | 37                               | 50.3        | 92      | do. 13   | -3     | do. 27  | 39                      | 57.80              | 11.68            | Aug.  | 1.91          | Mar.  | 12.0                         | 120                       | 139               | 72                        | 154                          | nw.                |
| Jersey City.....                     | Hudson.....     | 10              | 29                               | 53.5        | 96      | do. 13   | 0      | do. 27  | 29                      | 50.05              | 9.41             | Oct.  | 1.25          | do.   | 11.0                         | 130                       | 120               | 137                       | 108                          | nw.                |
| Lambertville.....                    | Hunterdon.....  | 370             | 40                               | 51.5        | 95      | do. 13   | 0      | do. 27  | 40                      | 63.96              | 9.33             | Aug.  | 1.22          | Sept. | 16.7                         | 144                       | 178               | 68                        | 119                          | nw.                |
| Little Falls.....                    | Passaic.....    | 180             | 13                               | 51.2        | 97      | July 13  | -2     | Jan. 27 | 24                      | 61.49              | 11.03            | Aug.  | 1.54          | Mar.  | .....                        | 137                       | 155               | 86                        | 124                          | nw.                |
| New Brunswick.....                   | Middlesex.....  | 110             | 70                               | 52.3        | 96      | do. 13   | 0      | Jan. 27 | 74                      | 50.91              | 10.34            | Oct.  | 0.78          | do.   | 11.8                         | 124                       | 177               | 87                        | 101                          | dn.                |
| New Milford.....                     | Bergen.....     | 9               | .....                            | .....       | .....   | .....    | .....  | .....   | 9                       | .....              | 10.85            | Aug.  | 1.40          | do.   | .....                        | 117                       | .....             | .....                     | .....                        | .....              |
| Paterson.....                        | Passaic.....    | 80              | 52                               | 52.7        | 97      | July 13  | -1     | Jan. 27 | 56                      | 56.21              | 9.94             | do.   | 1.49          | do.   | 18.0                         | 130                       | 210               | 49                        | 106                          | nw.                |
| Plainfield.....                      | Union.....      | 120             | 36                               | 51.3        | 96      | do. 13   | -2     | do. 27  | 39                      | 55.59              | 12.87            | do.   | 1.32          | do.   | 19.1                         | 127                       | 114               | 139                       | 112                          | nw.                |
| Ridgefield.....                      | Bergen.....     | 80              | 10                               | 51.1        | 93      | July 13  | -2     | Jan. 27 | 10                      | 58.03              | 9.70             | Aug.  | 1.51          | Mar.  | 13.4                         | 124                       | 131               | 105                       | 129                          | nw.                |
| Somerville.....                      | Somerset.....   | 70              | 43                               | 52.3        | 99      | do. 13   | 0      | Jan. 27 | 44                      | 48.12              | 9.27             | do.   | 1.14          | Mar.  | 16.9                         | 110                       | 201               | 66                        | 98                           | w.                 |
| South Orange.....                    | Essex.....      | 200             | 56                               | .....       | 98      | do. 13†  | .....  | .....   | 56                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Verona.....                          | Essex.....      | 490             | 2                                | 50.4        | 91      | do. 13   | -3     | Jan. 27 | 2                       | 61.46              | 11.75            | Aug.  | 1.64          | Mar.  | 13.2                         | 144                       | 106               | 109                       | 150                          | nw.                |
| Woodcliff Lake.....                  | Bergen.....     | 100             | .....                            | .....       | .....   | .....    | .....  | .....   | 9                       | .....              | 9.83             | do.   | 1.29          | do.   | .....                        | 119                       | .....             | .....                     | .....                        | .....              |
| New York, N. Y.....                  |                 | 365             | 57                               | 52.7        | 91      | July 13  | -1     | Jan. 27 | 57                      | 49.90              | 8.82             | Oct.  | 1.18          | Mar.  | 6.7                          | 131                       | 95                | 138                       | 132                          | nw.                |
| Means and extremes.....              |                 | .....           | .....                            | 51.7        | 99      | July 13  | -4     | Jan. 27 | .....                   | 54.81              | 12.87            | Aug.  | 0.78          | Mar.  | 13.6                         | 128                       | 160               | 90                        | 115                          | nw.                |
| The Southern Interior.               |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Belle Plain.....                     | Cape May.....   | 20              | 32                               | .....       | 94      | July 13  | -1     | Jan. 27 | 33                      | .....              | 5.20             | July  | .....         | ..... | 5.8                          | .....                     | .....             | .....                     | .....                        | .....              |
| Bridgeton.....                       | Cumberland..... | 90              | 41                               | .....       | 94      | June 29† | 4      | do. 27  | 46                      | 34.67              | 6.14             | do.   | 1.51          | Jan.  | 7.5                          | 91                        | 127               | 98                        | 140                          | sw.                |
| Burlington.....                      | Burlington..... | 12              | 15                               | 54.2        | 96      | July 13  | 3      | do. 27  | 41                      | 44.45              | 8.66             | Aug.  | 1.30          | Mar.  | 9.5                          | 129                       | 147               | 91                        | 127                          | sw.                |
| Clayton.....                         | Gloucester..... | 130             | 25                               | .....       | .....   | .....    | .....  | .....   | 28                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Hammonton.....                       | Atlantic.....   | 103             | .....                            | .....       | 97      | July 13† | 0      | Jan. 27 | 23                      | .....              | .....            | ..... | .....         | ..... | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Hightstown.....                      | Mercer.....     | 120             | 33                               | .....       | 97      | July 13† | 0      | Jan. 27 | 34                      | 49.17              | 9.17             | Aug.  | 1.10          | Mar.  | .....                        | 123                       | 201               | 76                        | 88                           | w.                 |
| Imlaystown.....                      | Monmouth.....   | 115             | 35                               | .....       | 97      | July 15  | 1      | do. 27  | 38                      | .....              | .....            | ..... | 1.08          | do.   | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Indian Mills.....                    | Burlington..... | 76              | 38                               | 53.4        | 97      | July 15  | 3      | do. 27  | 37                      | 48.88              | 9.89             | Aug.  | 2.12          | May   | 14.0                         | 123                       | 133               | 111                       | 121                          | sw.                |
| Lakewood.....                        | Ocean.....      | 54              | 23                               | 51.9        | 96      | July 14† | 0      | Jan. 27 | 23                      | 53.71              | 12.33            | Oct.  | 1.69          | Mar.  | 12.0                         | 129                       | 161               | 69                        | 135                          | sw.                |
| Moorestown.....                      | Burlington..... | 75              | 64                               | 53.6        | 97      | do. 13   | 2      | do. 27  | 64                      | 48.19              | 10.23            | Aug.  | 1.09          | do.   | 13.2                         | 109                       | 173               | 73                        | 119                          | nw.                |
| Northfield.....                      | Atlantic.....   | 25              | .....                            | .....       | .....   | .....    | .....  | .....   | 20                      | 41.49              | 8.56             | July  | 1.00          | Apr.  | 5.7                          | 112                       | .....             | .....                     | .....                        | .....              |
| Pleasantville.....                   | Atlantic.....   | 26              | 4                                | 51.8        | 93      | June 29† | 2      | Jan. 27 | 29                      | 42.89              | 7.98             | Oct.  | 1.22          | do.   | .....                        | 127                       | 197               | 85                        | 83                           | ne.                |
| Riverton.....                        | Burlington..... | .....           | 2                                | 52.6        | 95      | July 13† | 4      | Jan. 27 | 2                       | 47.05              | 8.54             | Aug.  | 1.14          | Mar.  | 8.6                          | 125                       | 150               | 61                        | 154                          | .....              |
| Runyon.....                          | Middlesex.....  | 18              | 4                                | 50.8        | 99      | do. 13   | -2     | do. 27  | 4                       | 50.59              | 11.24            | do.   | 0.85          | do.   | .....                        | 107                       | 185               | 123                       | 57                           | w.                 |
| Trenton.....                         | Mercer.....     | 190             | 55                               | 53.1        | 95      | do. 13   | 2      | do. 27  | 55                      | 45.13              | 7.93             | do.   | 0.83          | do.   | 13.1                         | 127                       | 103               | 116                       | 146                          | sw.                |
| Tuckerton.....                       | Ocean.....      | 23              | 29                               | .....       | 94      | June 29  | 0      | do. 27  | 34                      | 50.78              | 14.07            | Oct.  | 1.24          | Apr.  | .....                        | 117                       | .....             | .....                     | .....                        | e.                 |
| Vineland.....                        | Cumberland..... | 109             | 58                               | .....       | 95      | do. 29†  | 3      | do. 27  | 58                      | .....              | 7.99             | July  | 1.35          | Mar.  | .....                        | .....                     | .....             | .....                     | .....                        | .....              |
| Philadelphia, Pa.....                |                 | 117             | 56                               | 55.5        | 95      | Sept. 15 | 4      | Jan. 27 | 56                      | 43.15              | 7.27             | Aug.  | 1.11          | Mar.  | 7.7                          | 128                       | 101               | 108                       | 156                          | sw.                |
| Means and extremes.....              |                 | .....           | .....                            | 52.7        | 99      | July 13  | -2     | Jan. 27 | .....                   | 46.42              | 14.07            | Oct.  | 0.83          | Mar.  | 9.9                          | 118                       | 158               | 90                        | 117                          | sw.                |
| The Sea Coast.                       |                 |                 |                                  |             |         |          |        |         |                         |                    |                  |       |               |       |                              |                           |                   |                           |                              |                    |
| Asbury Park.....                     | Monmouth.....   | 22              | 37                               | .....       | 92      | July 29  | 5      | Jan. 27 | 38                      | 50.04              | 10.00            | Aug.  | 1.58          | Sept. | 8.0                          | 119                       | 220               | 89                        | 56                           | nw.                |
| Atlantic City.....                   | Atlantic.....   | 16              | 54                               | 53.4        | 93      | Sept. 15 | 5      | do. 27  | 54                      | 41.11              | 7.66             | Oct.  | 1.19          | Jan.  | 5.3                          | 122                       | 136               | 116                       | 113                          | s.                 |
| Cape May City.....                   | Cape May.....   | 17              | 43                               | 54.1        | 92      | July 29† | 6      | do. 27  | 43                      | 31.82              | 4.79             | Dec.  | 0.71          | Sept. | 7.5                          | 113                       | .....             | .....                     | .....                        | .....              |
| Sandy Hook.....                      | Monmouth.....   | 22              | 29                               | 52.5        | 90      | do. 13   | 4      | do. 27  | 29                      | 51.20              | 9.88             | Oct.  | 1.29          | Mar.  | 7.2                          | 129                       | 114               | 114                       | 137                          | nw.                |
| Means and extremes.....              |                 | .....           | .....                            | 53.3        | 93      | Sept. 15 | 4      | Jan. 27 | .....                   | 43.54              | 10.00            | Aug.  | 0.71          | Sept. | 7.0                          | 121                       | 157               | 106                       | 102                          | nw.                |
| For the State.....                   |                 | .....           | .....                            | 52.0        | 99      | July 13  | -12    | Jan. 27 | .....                   | 49.68              | 14.07            | Oct.  | 0.65          | Sept. | 13.7                         | 125                       | 156               | 90                        | 119                          | nw.                |

† Also on other dates



Monthly and Annual Precipitation for the Year 1927, with Departures from the Normal.—Continued

| STATIONS                             | January       |           | February      |           | March         |           | April         |           | May           |           | June          |           | July          |           | August        |           | September     |           | October       |           | November      |           | December      |           | Annual        |           |
|--------------------------------------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
|                                      | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure | Precipitation | Departure |
| The Highlands and Kittatinny Valley. |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belvidere.....                       | 3.02          | -0.52     | 3.07          | -0.77     | 1.68          | -2.17     | 3.08          | -0.58     | 3.98          | +0.15     | 5.24          | +1.24     | 4.19          | -0.79     | 7.82          | +3.21     | 1.32          | -2.45     | 6.92          | +3.25     | 5.71          | +2.47     | 5.28          | +1.21     | 51.31         | +4.25     |
| Charlotteburg.....                   | 3.21          | -0.34     | 3.26          | -0.76     | 1.52          | -2.68     | 2.28          | -2.04     | 4.14          | -0.06     | 4.63          | +0.51     | 5.61          | +0.78     | 8.33          | +3.71     | 2.88          | -1.54     | 8.47          | +4.00     | 8.68          | +5.16     | 4.80          | +0.47     | 57.81         | +7.21     |
| Culvers Lake.....                    | 2.37          | -0.81     | 2.98          | -0.08     | 1.85          | -1.62     | 2.64          | -1.18     | 3.48          | -0.15     | 3.17          | -1.44     | 6.59          | +2.02     | 9.18          | +4.76     | 1.73          | -2.81     | 7.06          | +2.88     | 6.76          | +3.96     | 5.40          | +1.74     | 53.21         | +7.27     |
| Dover.....                           | 2.96          | -1.43     | 2.37          | -1.66     | 1.60          | -2.39     | 2.63          | -1.13     | 4.62          | +0.68     | 3.71          | -0.32     | 6.61          | +1.34     | 8.29          | +3.53     | 1.60          | -2.49     | 7.93          | +3.86     | 8.19          | +4.55     | 6.44          | +1.14     | 55.95         | +5.68     |
| Layton.....                          | 2.29          | -0.60     | 4.39          | +1.65     | 1.97          | -1.40     | 2.68          | -0.93     | 3.98          | +0.73     | 3.78          | -0.01     | 6.56          | +2.30     | 8.59          | +4.69     | 2.33          | -1.59     | 7.57          | +3.95     | 5.99          | +3.50     | 4.52          | +0.58     | 54.65         | +12.87    |
| Newton.....                          | 2.01          | -1.04     | 2.50          | -1.06     | 1.63          | -1.94     | 2.27          | -1.10     | 3.72          | -0.21     | 3.28          | -0.70     | 5.48          | +0.52     | 8.06          | +3.64     | 1.66          | -2.15     | 7.86          | +4.23     | 6.03          | +2.90     | 4.61          | +0.90     | 49.67         | +3.99     |
| Phillipsburg.....                    | 2.45          | -1.15     | 3.02          | -0.62     | 1.35          | -2.19     | 1.95          | -1.31     | 1.93          | -1.93     | 2.64          | -0.99     | 2.95          | -1.90     | 4.19          | -0.43     | 0.65          | -3.01     | 3.24          | -0.32     | 4.30          | +1.10     | 2.80          | -0.94     | 31.47         | -13.69    |
| Sussex.....                          | 3.31          | -0.17     | 3.97          | +0.59     | 2.11          | -1.48     | 2.65          | -0.79     | 4.84          | +1.12     | 2.95          | -0.73     | 6.01          | +1.61     | .....         | .....     | 2.58          | -1.32     | 6.84          | +3.40     | 7.90          | +4.65     | 4.32          | +0.76     | .....         | .....     |
| The Red Sandstone Plain.             |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Bergen Point.....                    | 2.10          | -1.79     | 3.40          | -0.58     | 1.43          | -2.57     | 2.19          | -2.20     | 3.80          | -0.16     | 3.32          | -0.46     | 6.85          | +2.24     | 10.17         | +5.11     | 3.87          | +0.34     | 8.46          | +3.79     | 3.62          | +0.35     | 4.01          | -0.37     | 53.22         | +3.70     |
| Boonton.....                         | 1.66          | -2.17     | 2.23          | -1.74     | 1.29          | -2.65     | 2.43          | -1.56     | 4.58          | +0.52     | 3.33          | -0.34     | 6.69          | +1.79     | 11.22         | +6.14     | 2.28          | -1.85     | 7.28          | +3.37     | 4.03          | +0.46     | 4.16          | +0.18     | 51.18         | +2.15     |
| Chatham.....                         | 2.44          | -1.25     | 2.27          | -1.16     | 2.32          | -1.42     | 2.51          | -1.59     | 8.16          | +4.66     | 3.66          | -0.40     | 6.94          | +2.50     | 11.66         | +7.25     | 2.47          | -1.82     | 8.88          | +4.67     | 3.67          | +0.77     | 4.67          | +0.50     | 59.65         | +12.71    |
| Elizabeth.....                       | .....         | .....     | .....         | .....     | 1.59          | -2.63     | 2.20          | -1.48     | 3.75          | -0.07     | 3.55          | -0.07     | 5.44          | +0.28     | 10.26         | +5.97     | 2.83          | -0.94     | 8.44          | +4.55     | 2.99          | -0.26     | 4.00          | +0.04     | .....         | .....     |
| Flemington.....                      | 2.82          | -0.87     | 2.36          | -1.18     | 1.12          | -2.77     | 2.82          | -0.70     | 3.46          | -0.56     | 3.91          | +0.07     | 6.18          | +0.96     | 7.34          | +2.63     | 1.08          | -2.82     | 7.93          | +4.27     | 5.43          | +2.31     | 5.20          | +1.44     | 49.65         | +2.78     |
| Highwood.....                        | 2.01          | -1.94     | 2.79          | -1.47     | 1.91          | -2.27     | 2.23          | -1.20     | 5.19          | +1.36     | 3.27          | -0.42     | 7.70          | +2.75     | 11.68         | +6.93     | 4.24          | +0.32     | 8.29          | +3.87     | 4.99          | +1.49     | 3.50          | -0.71     | 57.80         | +8.71     |
| Jersey City.....                     | 2.06          | -1.44     | 3.54          | -0.18     | 1.25          | -2.90     | 2.62          | -1.54     | 3.65          | +0.07     | 3.31          | -0.19     | 4.56          | +0.12     | 7.91          | +3.38     | 4.11          | +0.76     | 9.41          | +5.73     | 3.97          | +0.78     | 3.66          | -0.27     | 50.05         | +4.32     |
| Lambertville.....                    | 2.69          | -0.96     | 3.18          | -0.30     | 1.38          | -2.65     | 3.67          | +0.09     | 4.04          | +0.02     | 3.70          | -0.21     | 5.76          | +0.94     | 9.33          | +4.67     | 1.22          | -2.67     | 8.29          | +4.81     | 4.94          | +1.73     | 5.76          | +1.89     | 53.96         | +7.36     |
| Little Falls.....                    | 1.84          | -1.86     | 3.15          | -0.32     | 1.54          | -2.05     | 2.77          | -1.35     | 5.62          | +1.83     | 4.05          | +0.53     | 8.87          | +4.48     | 11.03         | +6.63     | 5.03          | +1.45     | 9.67          | +5.16     | 3.92          | +1.02     | 4.00          | -0.09     | 61.49         | +15.43    |
| New Brunswick.....                   | 1.97          | -1.82     | 2.49          | -1.13     | 0.78          | -3.08     | 2.84          | -0.90     | 3.72          | -0.17     | 2.80          | -0.96     | 6.98          | +1.94     | 9.62          | +4.47     | 2.18          | -1.42     | 10.34         | +6.76     | 2.88          | -0.60     | 4.31          | +0.64     | 50.91         | +3.78     |
| New Milford.....                     | .....         | .....     | .....         | .....     | 1.40          | .....     | 2.19          | .....     | 4.70          | .....     | 2.90          | .....     | 7.43          | .....     | 10.85         | .....     | 4.42          | .....     | 6.66          | .....     | 3.77          | .....     | 3.50          | .....     | .....         | .....     |
| Paterson.....                        | 1.53          | -2.32     | 3.12          | -1.09     | 1.49          | -2.89     | 2.22          | -1.34     | 5.65          | +1.21     | 3.49          | -0.63     | 8.00          | +2.98     | 9.94          | +5.21     | 4.46          | +0.33     | 8.52          | +4.43     | 3.64          | +0.47     | 4.15          | +0.09     | 56.21         | +6.45     |
| Plainfield.....                      | 2.58          | -1.44     | 2.79          | -1.17     | 1.32          | -2.95     | 2.71          | -1.19     | 4.54          | +0.62     | 3.45          | -0.29     | 6.72          | +0.89     | 12.87         | +7.66     | 2.27          | -2.10     | 8.75          | +4.60     | 3.08          | -0.29     | 4.51          | +0.45     | 55.59         | +4.79     |
| Ridgefield.....                      | 2.02          | .....     | 2.90          | .....     | 1.51          | .....     | 2.14          | .....     | 5.91          | .....     | 3.54          | .....     | 8.53          | .....     | 9.70          | .....     | 4.57          | .....     | 8.72          | .....     | 4.73          | .....     | 3.76          | .....     | 58.03         | .....     |
| Somerville.....                      | 2.72          | -1.00     | 3.06          | -0.72     | 1.14          | -2.82     | 2.12          | -1.37     | 4.10          | +0.25     | 2.96          | -0.78     | 5.43          | +0.32     | 9.27          | +4.43     | 1.16          | -2.49     | 8.04          | +4.60     | 3.16          | +0.12     | 4.96          | +1.11     | 48.12         | +1.65     |
| South Orange.....                    | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Verona.....                          | 2.01          | .....     | 3.52          | .....     | 1.64          | .....     | 2.71          | .....     | 6.11          | .....     | 4.23          | .....     | 9.34          | .....     | 11.75         | .....     | 4.30          | .....     | 8.17          | .....     | 3.59          | .....     | 4.09          | .....     | 61.46         | .....     |
| Woodcliff Lake.....                  | .....         | .....     | .....         | .....     | 1.29          | .....     | 2.08          | .....     | 3.94          | .....     | 3.13          | .....     | 7.10          | .....     | 9.83          | .....     | 3.79          | .....     | 7.59          | .....     | 4.04          | .....     | 4.46          | .....     | .....         | .....     |
| New York, N. Y.....                  | 1.95          | -1.84     | 3.33          | -0.41     | 1.18          | -2.92     | 2.66          | -0.64     | 3.67          | +0.49     | 3.13          | -0.13     | 5.93          | +1.39     | 8.05          | +3.52     | 3.84          | +0.25     | 8.82          | +5.11     | 3.95          | +0.51     | 3.39          | -0.06     | 49.90         | +5.27     |
| The Southern Interior.               |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Belleplain.....                      | 1.66          | -1.87     | .....         | .....     | .....         | .....     | 1.52          | -2.13     | 2.48          | -1.34     | 2.30          | -0.92     | 5.20          | +1.09     | 5.02          | +0.72     | .....         | .....     | 4.17          | +0.75     | 2.08          | -0.53     | 3.02          | -0.93     | .....         | .....     |
| Bridgeton.....                       | 1.51          | -2.01     | 2.54          | -1.28     | 1.71          | -2.47     | 1.74          | -1.78     | 2.42          | -1.42     | 2.28          | -1.45     | 6.14          | +1.65     | 4.36          | -0.23     | 2.02          | -1.29     | 4.25          | +0.66     | 1.74          | -1.06     | 3.96          | +0.14     | 34.67         | -10.54    |
| Burlington.....                      | 1.73          | -1.67     | 2.26          | -1.24     | 1.30          | -2.41     | 3.36          | -0.34     | 2.66          | -1.55     | 2.11          | -1.77     | 4.26          | -0.48     | 8.66          | +3.21     | 3.06          | -0.45     | 6.65          | +3.00     | 3.15          | +0.04     | 5.25          | +0.93     | 44.45         | -2.73     |
| Clayton.....                         | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Hammonton.....                       | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Hightstown.....                      | 2.52          | -0.75     | 4.55          | +0.95     | 1.10          | -2.94     | 2.96          | -0.95     | 3.03          | -0.92     | 3.93          | +0.33     | 3.32          | -1.67     | 9.17          | +4.59     | 1.80          | -1.33     | 9.01          | +5.30     | 3.19          | -0.12     | 4.59          | +0.90     | 49.17         | +3.39     |
| Inlaytown.....                       | 2.49          | -1.05     | 2.71          | -0.83     | 1.08          | -3.00     | 2.50          | -0.94     | 2.26          | -1.36     | 3.09          | -0.68     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     | .....         | .....     |
| Indian Mills.....                    | 2.86          | -0.96     | 3.24          | -0.21     | 2.73          | -1.30     | 2.56          | -0.87     | 2.12          | -1.12     | 2.89          | -1.24     | 4.48          | -0.18     | 9.89          | +3.96     | 3.30          | -0.61     | 7.09          | +3.65     | 2.93          | -0.15     | 4.79          | +0.39     | 48.88         | +1.36     |
| Lakewood.....                        | 2.17          | -1.51     | 4.31          | +0.74     | 1.69          | -2.29     | 1.84          | -1.83     | 2.09          | -1.31     | 3.01          | -0.70     | 4.91          | +0.06     | 9.03          | +2.98     | 2.70          | -0.09     | 12.33         | +8.74     | 4.06          | +1.60     | 5.57          | +0.93     | 53.71         | +7.32     |
| Moorestown.....                      | 1.75          | -1.71     | 3.22          | -0.26     | 1.09          | -2.67     | 3.97          | +0.68     | 2.02          | -2.00     | 3.03          | -0.69     | 4.58          | -0.10     | 10.23         | +5.34     | 3.44          | -0.19     | 6.45          | +2.88     | 3.04          | -0.21     | 5.37          | +1.68     | 48.19         | +2.75     |
| Northfield.....                      | 1.28          | -2.25     | 3.21          | +0.42     | 1.14          | -2.35     | 1.00          | -0.67     | 2.80          | -0.67     | 2.69          | -0.98     | 8.56          | +4.96     | 4.44          | +0.09     | 2.46          | -0.04     | 7.27          | +1.49     | 2.69          | -0.29     | 4.55          | +0.43     | 41.49         | +1.35     |
| Pleasantville.....                   | 1.61          | -1.55     | 3.70          | +0.89     | 1.24          | -2.23     | 1.22          | -2.13     | 2.74          | -0.52     | 2.66          | -1.27     | 6.07          | +2.09     | 5.43          | +0.50     | 3.23          | +0.11     | 7.98          | +4.54     | 2.32          | -0.40     | 4.69          | +0.45     | 42.89         | +0.48     |
| Riverton.....                        | 2.02          | .....     | 3.58          | .....     | 1.14          | .....     | 3.50          | .....     | 2.41          | .....     | 3.06          | .....     | 4.66          | .....     | 8.54          | .....     | 3.48          | .....     | 6.25          | .....     | 3.43          | .....     | 4.98          | .....     | 47.05         | .....     |
| Runyon.....                          | 3.32          | .....     | 2.18          | .....     | 0.85          | .....     | 3.26          | .....     | 3.59          | .....     | 2.49          | .....     | 4.33          | .....     | 11.24         | .....     | 1.65          | .....     | 9.69          | .....     | 3.37          | .....     | 4.62          | .....     | 50.59         | .....     |
| Trenton.....                         | 2.02          | -1.15     | 2.59          | -0.60     | 0.83          | -3.21     | 2.91          | -0.38     | 2.78          | -0.74     | 3.30          | -0.19     | 4.40          | -0.37     | 7.93          | +2.56     | 2.03          | -1.56     | 7.41          | +4.00     | 3.57          | +0.14     | 5.36          | +2.20     | 45.13         | +0.70     |
| Tuckerton.....                       | 2.46          | -1.17     | 3.57          | -0.09     | 2.04          | -2.21     | 1.24          | -2.50     | 2.07          | -1.67     | 1.46          | -2.87     | 5.92          | +2.04     | 5.99          | +0.45     | 3.73          | +0.67     | 14.07         | .....     | 3.00          | -0.08     | 5.23          | +0.72     | 50.78         | +4.33     |
| Vineland.....                        | .....         | .....     | 3.93          | +0.21     | 1.35          | -2.61     | 1.82          | -1.58     | 2.10          | -1.53     | 1.63          | -1.94     | 7.99          | +3.42     | 4.91          | +0.10     | 2.41          | -1.28     | 4.52          | +1.18     | 3.38          | +0.27     | 3.80          | -0.02     | .....         | .....     |
| Philadelphia, Pa.....                | 1.88          | -1.53     | 3.62          | +0.24     | 1.11          | -2.34     | 3.66          | +0.75     | 1.75          | -1.45     | 3.48          | +0.18     | 4.50          | +0.17     | 7.27          | +2.66     | 2.59          | -0.79     | 5.71          | +2.61     | 3.59          | +0.53     | 3.99          | +0.95     | 43.15         | +1.98     |
| The Sea Coast.                       |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |               |           |
| Asbury Park.....                     | 2.26          | -1.31     | 2.35          | -1.15     | 1.60          | -2.63     | 2.30          | -1.39     | 3.02          | -0.56     | 3.58          | -0.04     | 5.16          | +0.62     | 10.00         | +4.94     |               |           |               |           |               |           |               |           |               |           |



Monthly and Annual Mean Temperatures for the Year 1927, with Departures from the Normal

| STATIONS.                                   | January     |           | February    |           | March       |           | April       |           | May         |           | June        |           | July        |           | August      |           | September   |           | October     |           | November    |           | December    |           | Annual      |           |
|---------------------------------------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|                                             | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure | Temperature | Departure |
| <i>The Highlands and Kittatinny Valley.</i> |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Belvidere.....                              | 27.0        | -0.3      | 34.3        | +7.2      | 42.5        | +4.4      | 48.6        | -1.2      | 58.2        | -2.5      | 66.0        | -2.8      | 73.0        | -0.2      | 67.8        | -3.2      | 66.2        | +1.5      | 56.3        | +2.5      | 45.4        | +4.3      | 32.6        | +2.0      | 51.5        | +1.0      |
| Charlotteburg.....                          | 26.2        | -0.7      | 32.0        | +6.4      | 38.2        | +2.4      | 44.7        | -2.1      | 54.9        | -2.6      | 61.9        | -2.9      | 69.0        | -1.0      | 63.7        | -4.2      | 61.9        | 0.0       | 52.5        | +0.9      | 45.6        | +5.5      | 32.9        | +3.1      | 48.6        | +0.4      |
| Dover.....                                  | 26.4        | -0.2      | 33.4        | +7.2      | 40.6        | +4.8      | 45.6        | -1.8      | 56.0        | -2.6      | 63.8        | -2.9      | 70.6        | -0.8      | 65.2        | -3.9      | 63.2        | +1.0      | 54.6        | +3.3      | 45.4        | +5.3      | 32.6        | +2.7      | 49.7        | +1.0      |
| Layton.....                                 | 24.2        | -0.5      | 31.6        | +8.0      | 38.6        | +3.0      | 44.7        | -2.5      | 55.5        | -2.5      | 61.8        | -3.7      | 70.4        | -0.5      | 63.8        | -4.6      | 62.6        | +0.3      | 54.1        | +2.6      | 44.0        | +5.2      | 30.7        | +3.3      | 48.5        | +0.7      |
| Newton.....                                 | 26.5        | +0.8      | 32.9        | +6.4      | 41.4        | +5.9      | 45.8        | -2.2      | 56.4        | -3.1      | 64.1        | -3.9      | 71.2        | -1.3      | 65.6        | -4.8      | 63.9        | +0.4      | 55.6        | +2.9      | 45.1        | +4.6      | 30.9        | +0.8      | 50.0        | +0.5      |
| Phillipsburg.....                           | 29.2        | +1.1      | 35.8        | +7.9      | 43.0        | +4.9      | 48.0        | -1.9      | 55.7        | -2.6      | 65.2        | -4.1      | 72.4        | -1.7      | 65.2        | -6.6      | 64.4        | -0.8      | 54.6        | +0.7      | 44.6        | +3.4      | 32.2        | +0.9      | 51.1        | +0.1      |
| Sussex.....                                 | 26.5        | -0.1      | 32.4        | +7.0      | 40.2        | +3.9      | 45.2        | -3.4      | 56.1        | -3.8      | 62.8        | -4.0      | 70.4        | -1.7      | .....       | .....     | 63.1        | -1.1      | 55.0        | +1.8      | 45.0        | +3.9      | 31.8        | +1.9      | .....       | .....     |
| <i>The Red Sandstone Plain.</i>             |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Bergen Point.....                           | 30.8        | +0.1      | 36.6        | +7.2      | 42.9        | +3.4      | 48.9        | -0.6      | 58.6        | -1.7      | 64.9        | -3.5      | 74.6        | +0.6      | 68.0        | -4.2      | 67.2        | +0.8      | 58.6        | +2.4      | 48.8        | +5.1      | 36.2        | +3.2      | 53.0        | +1.1      |
| Boonton.....                                | 25.8        | -1.5      | 31.8        | +4.7      | 38.9        | +2.3      | 44.9        | -3.8      | 55.2        | -4.0      | 63.0        | -4.6      | 70.8        | -1.7      | 65.4        | -5.9      | 62.7        | -0.9      | 54.3        | +1.5      | 43.6        | +2.2      | 32.0        | +1.5      | 49.0        | -0.8      |
| Elizabeth.....                              | 29.8        | -0.4      | 35.9        | +5.4      | 41.1        | +2.3      | 48.2        | -2.6      | 59.3        | -2.7      | 66.4        | -4.1      | 73.5        | -1.8      | 67.2        | -6.2      | 66.0        | -0.7      | 57.6        | +2.2      | 47.7        | +4.2      | 35.0        | +1.7      | 52.3        | -0.2      |
| Flemington.....                             | 29.5        | -0.3      | 36.6        | +7.8      | 43.4        | +3.3      | 48.6        | -1.8      | 58.7        | -2.6      | 66.2        | -3.0      | 73.6        | -1.0      | 67.6        | -4.9      | 66.0        | -0.3      | 57.4        | +1.4      | 47.5        | +4.6      | 35.1        | +3.1      | 52.5        | +0.5      |
| Highwood.....                               | 27.8        | -1.0      | 33.6        | +5.2      | 40.1        | +3.1      | 46.8        | -1.7      | 56.6        | -2.7      | 64.4        | -3.2      | 71.0        | -1.3      | 65.2        | -5.6      | 62.9        | -0.8      | 55.4        | +2.0      | 46.4        | +4.4      | 33.8        | +2.0      | 50.3        | 0.0       |
| Jersey City.....                            | 30.4        | -1.8      | 37.0        | +6.4      | 43.4        | +4.2      | 48.8        | -1.2      | 59.0        | -2.6      | 67.2        | -3.7      | 74.4        | -1.7      | 69.2        | -4.9      | 68.4        | +1.2      | 59.3        | +3.0      | 48.6        | +4.6      | 36.4        | +2.3      | 53.5        | +0.5      |
| Lambertville.....                           | 28.0        | -2.5      | 35.0        | +4.6      | 41.6        | +2.2      | 47.4        | -3.3      | 57.7        | -3.9      | 65.2        | -4.5      | 73.2        | -1.1      | 67.1        | -5.3      | 65.6        | -0.2      | 55.8        | +1.2      | 47.6        | +4.4      | 34.2        | +0.6      | 51.5        | -0.6      |
| Little Falls.....                           | 27.8        | -0.2      | 34.0        | +4.4      | 40.8        | +2.8      | 47.0        | -2.9      | 57.0        | -2.7      | 65.4        | -2.6      | 72.6        | -1.2      | 66.7        | -6.5      | 65.2        | +1.1      | 56.9        | +2.0      | 46.6        | +4.4      | 34.0        | +2.5      | 51.2        | +0.1      |
| New Brunswick.....                          | 29.3        | -0.9      | 35.5        | +4.7      | 41.9        | +3.1      | 47.9        | -1.7      | 58.3        | -2.1      | 66.1        | -3.0      | 73.2        | -0.8      | 67.4        | -4.7      | 66.1        | +0.5      | 57.3        | +2.5      | 48.4        | +5.0      | 35.9        | +2.7      | 52.3        | +0.4      |
| Paterson.....                               | 30.2        | +0.6      | 36.2        | +6.0      | 43.2        | +4.4      | 49.9        | -0.6      | 59.2        | -2.3      | 67.6        | -2.2      | 73.4        | -1.0      | 67.8        | -4.4      | 66.1        | -0.1      | 56.9        | +1.7      | 47.2        | +3.7      | 35.0        | +1.9      | 52.7        | +0.6      |
| Plainfield.....                             | 28.2        | -1.8      | 35.2        | +6.5      | 41.3        | +2.5      | 46.8        | -2.8      | 56.8        | -3.4      | 65.1        | -3.5      | 72.2        | -1.8      | 66.6        | -5.2      | 65.4        | -0.2      | 56.2        | +2.0      | 47.1        | +4.6      | 34.8        | +2.1      | 51.3        | -0.1      |
| Ridgefield.....                             | 28.6        | .....     | 34.4        | .....     | 40.4        | .....     | 46.7        | .....     | 57.2        | .....     | 65.2        | .....     | 72.5        | .....     | 66.4        | .....     | 65.4        | .....     | 56.4        | .....     | 46.4        | .....     | 33.8        | .....     | 51.1        | .....     |
| Somerville.....                             | 29.2        | +0.4      | 35.8        | +6.9      | 42.4        | +4.2      | 47.8        | -1.7      | 59.0        | -1.8      | 66.0        | -3.1      | 73.8        | -0.3      | 67.8        | -4.6      | 66.1        | +0.1      | 56.6        | +2.3      | 47.4        | +5.0      | 35.2        | +3.0      | 52.3        | +0.9      |
| South Orange.....                           | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     |
| Verona.....                                 | 27.8        | .....     | 33.5        | .....     | 40.8        | .....     | 46.5        | .....     | 56.2        | .....     | 64.0        | .....     | 70.8        | .....     | 65.6        | .....     | 63.8        | .....     | 55.7        | .....     | 46.8        | .....     | 33.6        | .....     | 50.4        | .....     |
| New York, N. Y.....                         | 30.2        | -0.7      | 36.6        | +5.3      | 42.6        | +4.9      | 47.7        | -1.7      | 58.0        | -2.6      | 65.3        | -3.0      | 73.0        | -0.8      | 67.5        | -5.6      | 66.8        | 0.0       | 58.7        | +2.4      | 48.6        | +4.4      | 36.6        | +1.6      | 52.7        | +0.4      |
| <i>The Southern Interior.</i>               |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Belleplain.....                             | 31.7        | -1.3      | 37.8        | +6.3      | .....       | .....     | 47.8        | -2.8      | 57.3        | -3.8      | 65.2        | -3.5      | 71.9        | -1.9      | 65.7        | -6.9      | .....       | .....     | 55.4        | -0.9      | 49.2        | +4.7      | 37.5        | +2.4      | .....       | .....     |
| Bridgeton.....                              | 32.2        | -1.5      | 38.8        | +5.1      | 44.2        | +1.9      | 49.2        | -3.5      | 60.8        | -3.2      | 66.5        | -5.6      | 74.5        | -2.2      | 68.8        | -6.2      | 66.8        | -1.4      | 59.2        | +1.8      | 50.6        | +5.0      | .....       | .....     | .....       | .....     |
| Burlington.....                             | 30.7        | -1.6      | 37.9        | +6.6      | 45.2        | +4.8      | 50.1        | -1.7      | 61.0        | -0.9      | 68.0        | -1.7      | 74.8        | -0.2      | 68.7        | -5.5      | 67.4        | +0.6      | 58.3        | +0.1      | 50.4        | +6.0      | 38.2        | +4.4      | 54.2        | +0.9      |
| Clayton.....                                | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     | .....       | .....     |
| Hightstown.....                             | .....       | .....     | 37.7        | +8.3      | 43.2        | +2.8      | .....       | .....     | 59.0        | -2.3      | 65.8        | -3.2      | 71.0        | -0.4      | 67.6        | -4.7      | 66.0        | -0.8      | 57.0        | +1.8      | 50.6        | +7.3      | 36.0        | +3.4      | .....       | .....     |
| Imlaystown.....                             | 30.1        | -1.0      | 36.6        | +6.2      | 42.2        | +3.1      | 47.4        | -3.1      | 58.6        | -3.3      | 65.6        | -4.7      | .....       | .....     | 67.6        | -4.7      | 66.0        | -0.8      | 57.0        | +1.8      | 50.6        | +7.3      | 36.0        | +3.4      | .....       | .....     |
| Indian Mills.....                           | 31.4        | -0.5      | 38.0        | +6.2      | 43.2        | +2.7      | 48.6        | -1.7      | 60.4        | -1.7      | 65.9        | -3.9      | 73.7        | -1.0      | 68.2        | -4.4      | 66.2        | +0.1      | 57.2        | +1.7      | 50.0        | +7.1      | 38.2        | +4.4      | 53.4        | +0.8      |
| Lakewood.....                               | 29.8        | -1.5      | 36.1        | +6.4      | 42.1        | +2.5      | 47.0        | -2.4      | 58.1        | -2.1      | 65.6        | -1.9      | 72.8        | 0.0       | 66.9        | -4.2      | 63.6        | -1.0      | 55.0        | -0.1      | 48.5        | +5.7      | 36.8        | +3.3      | 51.9        | +0.4      |
| Moorestown.....                             | 31.0        | +0.3      | 38.4        | +7.1      | 45.4        | +6.2      | 48.8        | -1.6      | 59.7        | -1.6      | 66.2        | -3.8      | 73.6        | -1.1      | 68.4        | -4.2      | 67.0        | +1.0      | 58.4        | +3.7      | 49.2        | +6.0      | 37.4        | +3.9      | 53.6        | +1.3      |
| Pleasantville.....                          | 30.6        | .....     | 37.8        | .....     | 41.0        | .....     | 47.0        | .....     | 57.8        | .....     | 64.0        | .....     | 71.6        | .....     | 66.8        | .....     | 64.3        | .....     | 57.3        | .....     | 47.4        | .....     | 36.6        | .....     | 51.8        | .....     |
| Riverton.....                               | 29.6        | .....     | 37.2        | .....     | 43.1        | .....     | 47.6        | .....     | 59.2        | .....     | 65.6        | .....     | 73.9        | .....     | 67.2        | .....     | 66.0        | .....     | 56.8        | .....     | 48.7        | .....     | 35.8        | .....     | 52.6        | .....     |
| Runyon.....                                 | 28.6        | .....     | 36.0        | .....     | 39.8        | .....     | 46.6        | .....     | 57.2        | .....     | 64.0        | .....     | 71.4        | .....     | 65.7        | .....     | 64.8        | .....     | 54.9        | .....     | 46.4        | .....     | 34.6        | .....     | 50.8        | .....     |
| Trenton.....                                | 30.1        | -0.4      | 37.6        | +6.9      | 43.4        | +4.3      | 48.0        | -1.8      | 59.0        | -2.1      | 66.4        | -3.1      | 74.2        | -0.3      | 68.0        | -5.0      | 66.8        | -0.1      | 57.8        | +2.2      | 49.4        | +5.0      | 36.8        | +2.4      | 53.1        | +0.7      |
| Tuckerton.....                              | .....       | .....     | 40.6        | +9.8      | 42.7        | +2.7      | 48.7        | -0.6      | 59.8        | -0.1      | 66.8        | -1.6      | 72.7        | -1.4      | 68.5        | -4.2      | 66.4        | +0.2      | 58.1        | +2.0      | 60.4        | +6.3      | 38.3        | +3.9      | .....       | .....     |
| Vineland.....                               | .....       | .....     | 40.6        | +8.1      | 45.0        | +4.5      | 50.7        | -0.3      | 62.5        | +0.2      | 68.4        | -2.8      | 75.7        | -0.7      | 70.5        | -3.2      | 68.8        | +1.8      | 56.7        | +0.7      | 51.8        | +7.7      | 38.8        | +4.3      | .....       | .....     |
| Philadelphia, Pa.....                       | 32.6        | 0.0       | 40.6        | +6.7      | 46.4        | +5.6      | 50.9        | -1.2      | 61.6        | -1.3      | 68.6        | -2.8      | 75.8        | -0.4      | 70.2        | -4.6      | 69.4        | +1.4      | 60.4        | +2.6      | 50.9        | +5.2      | 38.9        | +2.6      | 56.6        | +1.2      |
| <i>The Sea Coast.</i>                       |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |             |           |
| Asbury Park.....                            | 30.4        | -1.8      | 36.7        | +5.3      | 40.2        | +1.2      | 46.8        | -1.7      | 55.8        | -3.0      | .....       | .....     | .....       | .....     | 65.0        | -3.8      | 66.0        | -0.8      | 58.1        | +2.3      | 49.4        | +4.6      | 37.8        | +2.8      | .....       | .....     |
| Atlantic City.....                          | 32.6        | +0.1      | 40.4        | +6.8      | 42.4        | +3.8      | 47.2        | -0.6      | 57.5        | -0.6      | 65.0        | -1.6      | 71.2        | -0.9      | 68.4        | -4.1      | 67.5        | +0.7      | 59.2        | +2.3      | 50.8        | +5.2      | 39.1        | +2.7      | 53.4        | +1.2      |
| Cape May City.....                          | 32.6        | -1.5      | 40.4        | +6.3      | 42.8        | +2.0      | 48.0        | -0.4      | 59.4        | +0.8      | 66.0        | -1.7      | 72.8        | -0.6      | 68.4        | -6.0      | 68.6        | -0.4      | 60.5        | +0.9      | 60.5        | +3.1      | 38.9        | +0.9      | 54.1        | +0.4      |
| Sandy Hook.....                             | 29.9        | -0.9      | 36.1        | +5.5      | 41.0        | +4.0      | 47.0        | 0.0       | 57.2        | -1.3      | 65.6        | -2.2      | 72.8        | -0.9      | 67.8        | -5.0      | 67.2        | +0.1      | 59.2        | +2.2      | 49.0        | +5.6      | 36.7        | +2.3      | 52.5        | +0.8      |

Letters of alphabet denote number of days missing





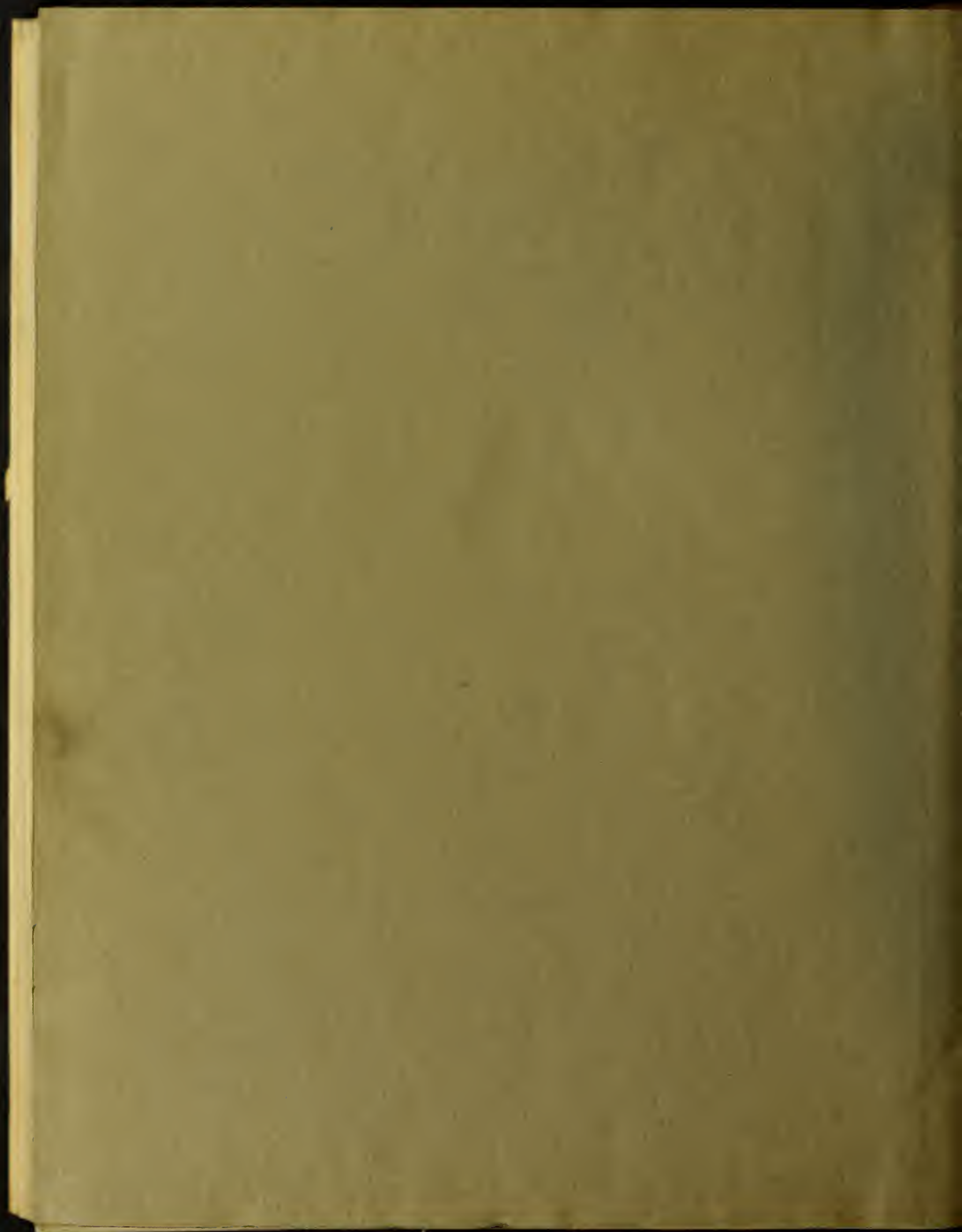


















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